



**South Carolina Department of Health
and Environmental Control**

Division of Procurement Services

Invitation for Bid

Solicitation No.: IFB-30939-11/14/06-EMW
Date Issued: 10/5/06
Procurement Officer: E. Madison Winslow
E. Madison Winslow
Phone No.: (803) 898-3487
E-mail Address: winsloem@dhec.sc.gov

DESCRIPTION: Corrective action for petroleum release – UST Permit Number 11814, Ruffin, SC

The Term "Offer" Means Your "Bid" or "Proposal"

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SUBMIT OFFER BY (Opening Date/Time): **November 14, 2006/2:30 pm E.T.**

NUMBER OF COPIES TO BE SUBMITTED: **One (1) original**

QUESTIONS MUST BE RECEIVED BY: **October 31, 2006/5:00 p.m. E.T.** See Specific Requirements, Number 2

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

MAILING ADDRESS:	PHYSICAL ADDRESS:
SC DHEC Division of Procurement Services Bureau of Business Management 2600 Bull Street Columbia, S.C. 29201	SC DHEC Division of Procurement Services Bureau of Business Management 2600 Bull Street, Room 1200 – Aycock Bldg. Columbia, S. C. 29201

Offers Must Be Sealed: See provision entitled "Submitting Your Offer"

AWARD & AMENDMENTS	Award will be posted on or after November 21, 2006 . The award, this solicitation, and any amendments will be posted at the following web address: http://www.scdhec.net/procurement .
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You must submit a signed copy of this form with your offer. By submitting a bid or proposal, you agree to be bound by the terms of the solicitation. You agree to hold your offer open for a minimum of thirty (30) calendar days after the opening date.

NAME OF OFFEROR <small>(Full legal name of business submitting the offer)</small>		OFFEROR'S TYPE OF ENTITY: <small>(Check one)</small> <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation (tax-exempt) <input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Government entity (federal, state, or local) <input type="checkbox"/> Other
AUTHORIZED SIGNATURE <small>(Person signing must be authorized to submit binding offer to enter contract on behalf of Offeror named above.)</small>		
TITLE <small>(Business title of person signing above)</small>		
PRINTED NAME <small>(Printed name of person signing above)</small>	DATE	

(See provision entitled "Signing Your Offer")

Instructions regarding offeror's name: Any award issued will be issued to, and the contract will be formed with, the entity identified as the offeror above. An offer may be submitted by only one legal entity. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, *i.e.*, a separate corporation, partnership, sole proprietorship, etc.

OFFEROR'S HOME OFFICE ADDRESS <small>(Address for the offeror's principal place of business)</small>		
CITY	STATE	ZIP CODE
PHONE	FACSIMILE	E-MAIL
STATE OF INCORPORATION <small>(If offeror is a corporation, identify the state of Incorporation)</small>		
TAXPAYER IDENTIFICATION NO. <small>(See provision entitled Taxpayer Identification Number)</small>		

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I. SCOPE OF WORK

A. DEFINITIONS:

For the purposes of this contract the following terms and definitions shall apply:

1. Catastrophic Occurrence: an event (e.g., hurricane) that results in a declared state of emergency and directly and substantially affects the Contractor's operations at a site .
2. Chemicals of Concern: Specific constituents that are identified for monitoring and corrective action.
3. Corrective Action Completion Time: the time in months, estimated by the Contractor, necessary to reduce concentrations of chemicals of concern to site-specific target levels, verify attainment of the goals, and remove or properly abandon assessment and corrective action items (wells, treatment lines, etc.).
4. Corrective Action Plan: A document outlining and detailing proposed corrective actions.
5. Corrective Action System Startup Date: the date on which the Contractor initiates full time treatment operations or initiates injection into or extraction from the subsurface.
6. Site Incentive Period: the period of time in months established by the SCDHEC during which the Contractor must achieve the 100% Concentration Reduction Goal in order to qualify for the Early Completion Incentive.

B. SOLICITATION STATEMENT

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is seeking services to perform corrective action of petroleum releases at regulated underground storage tank sites in accordance with defined remediation goals. *The objective is to prevent significant further migration and reduce the levels of chemicals of concern (CoC) in the soil and groundwater to or below defined site-specific target levels (SSTLs).* All offerors must be South Carolina Certified Class I Site Rehabilitation Contractors.

C. SCHEDULE OF DELIVERABLES

The following table summarizes the deadlines for deliverables associated with this contract.

DELIVERABLE DUE	DEADLINE
Questions	By 5:00 p.m. 10/31/06
Sealed Bids	By 2:30 p.m. 11/14/06
Corrective Action Plan	30 days from date of award
Performance Bond or Letter of Credit	30 days from date of award
Initial Monitoring Report	45 days from date of award
CAP Implementation	30 days from Notice to Proceed
System Start Up	15 days from receipt of Permit to Operate and CAP Notice to Proceed
Notify Project Manager of Sampling	At least two (2) weeks prior to the event
Corrective Action Monitoring Report	Quarterly from date of start up
Abandon Monitoring Wells and Corrective Action System	Within 60 days from notice by SCDHEC

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D. SITE SPECIFIC INFORMATION

The scope of work defined in this solicitation is to be implemented at:

UST Permit #	Facility Name	Site Address	Date Release Reported	Appendix #
11814	Snider's Stop & Shop	12595 Low Country Hwy, Ruffin	June 10, 1993	A

II. CONTRACTUAL REQUIREMENTS

A. GENERAL REQUIREMENTS

1. **CONTRACT PERIOD:** The contract will be effective from date of award until the corrective actions are complete as described in this contract.
2. **EQUAL OPPORTUNITY EMPLOYMENT:** Contractor must agree to make positive efforts to employ women, minorities, and minority-owned businesses.
3. **AMENDMENTS:** All amendments to this solicitation shall be in writing from the SCDHEC Procurement Officer indicated on page one of this solicitation. SCDHEC shall not be legally bound by any amendment, interpretation or settlement that is not in writing.
4. **RESTRICTION . . . THE ONLY OFFICIAL CONTACT PERSON AT SCDHEC DURING THE SOLICITATION AND AWARD OF THIS CONTRACT IS THE PROCUREMENT OFFICER INDICATED ON PAGE 1 OF THIS SOLICITATION. OFFERORS ARE NOT TO CONTACT ANY OTHER SCDHEC PERSONNEL LOCATED OUTSIDE THE BUREAU OF BUSINESS MANAGEMENT.**
5. **AWARD:** Award will be made to a South Carolina Certified UST Site Rehabilitation Contractor based on the Total cost, method(s), and Corrective Action Completion Times for the site listed. For a bid to be considered responsive, the proposed implementation schedule(s) and the proposed remediation technology(ies) or method(s) for active corrective action to achieve the remediation goals must be protective of public health and the environment and be eligible for permitting by SCDHEC. The total cost, methods, and time to complete the contract must be advantageous to the State of South Carolina.
 - a. The Corrective Action Completion Times shall be determined by the offeror and entered into the Corrective Action Solicitation Response in Contract Item IV.B.
 - i. Time is of the essence in completing the site work to restore the aquifers and protect human health and the environment. Therefore, offerors are encouraged to strive for efficient remediation methods and to propose the shortest practical times for the completion of this site.
 - ii. Award of the contract, if made, will be made to the responsible and qualified offeror who submits the lowest Total amount. In the event that two or more bidders submit the lowest Total amount, the award, if made, will be decided in accordance with the

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- Tie Bids procedure in Section B.(6) of the Underground Storage Tank Environmental Remediation Procedures. Submittal of a "No Bid" for an individual site in this solicitation will be considered non-responsive and will result in rejection of the overall bid.
- iii. The contractor shall enter the number of months in the space provided for the site in Section IV.B and in the Summary Table of the Corrective Action Solicitation Response (IV.C).
6. **REASONABLE COST:** SCDHEC reserves the right to reject any and all bids that appear to be above the customary and reasonable cost for the same scope of work in a similar geologic setting, that propose technologies that cannot be permitted in South Carolina, or that propose time frames for cleanup that are not protective of human health or the environment.
7. **SITE WORK VERIFICATION:** The contractor will be required to treat the area where petroleum chemicals of concern (CoC) are above site-specific target levels for the site in Appendix A of this solicitation. Verification that interim corrective action goals have been met will be based upon direct measurements and groundwater quality samples collected from the monitoring wells indicated for the site in the Appendix. Verification that final corrective action goals have been met will be based upon direct measurements and groundwater quality samples for the site from all existing monitoring wells and additional verification wells to be installed at locations and depths designated by SCDHEC (See Contract Item III.B.10 for more details). It is understood that seasonal fluctuations in CoC concentrations will occur over time. It is the intent of this corrective action to prevent further degradation of the aquifer(s) by continued migration of CoC into areas not previously impacted. If the corrective action allows CoC to migrate and impact areas beyond the assessed areas of concern established for the site in this solicitation, the Contractor will be responsible for completing assessment activities necessary to re-define the area of concern and for providing amendments to their Corrective Action Plan addressing the additional impacted areas.
8. **REPORTS:** Deliver one copy of each plan or report to: SCDHEC, Bureau of Land and Waste Management, UST Program, 2600 Bull Street, Columbia, SC 29201. A minimum of one (1) copy of each plan and one (1) copy of each report for the site in the Appendix must be delivered to the parties listed on the Distribution List included in the Appendix. Based on permitting and other requirements, additional copies of plans or reports may be required by the SCDHEC. The SCDHEC will notify the Contractor of the exact number of copies of each document to be submitted.
9. **INVOICING:** Invoices will be submitted to: SCDHEC, Bureau of Land and Waste Management, UST Program, ATTN: Financial Section, 2600 Bull Street, Columbia, SC 29201, using the SCDHEC's Corrective Action (CA) Invoice form. The initial invoice for the site must be received at the above address within four months of CAP approval or funds will be uncommitted as required by the Section 44-2-40(B) of the SUPERB Act. If funds are uncommitted the submitted invoice will be held until funding is available. **Payment will only be made for achieving the corrective action goals as specified. No partial payments will be made once corrective action is initiated, except as outlined in Contract Item III.B.3.** Payment to the contractor will be a pay for performance system as follows:

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- A. Payment of forty percent (40%) of the total corrective action price for the site will be made within 90 days following receipt of an invoice and documentation that the contractor has completed the Corrective Action System Startup. All corrective action activities must be as described in the CAP and are subject to the limitations of Section 44-2-40 of the SUPERB Act. The implementation should be documented in the first corrective action system evaluation (CASE) report for the site. The first CASE report for the site must include the construction logs for all treatment/recovery wells installed in accordance with the CAP.
- B. Payment of forty percent (40%) of the total corrective action price for the site will be made based on achieving interim CoC concentration reduction goals at the site as verified in the monitoring wells listed in the Appendix. Payments will be made upon receipt of invoices and documentation that the contractor has achieved interim goals of 60, 90 and 100 percent reduction of total CoC concentration above the SSTLs for the site by the implementation of active corrective action. The CoC concentrations and SSTLs for the site are listed in the Appendix.
1. The first concentration reduction goal will be achieved when sixty percent (60%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the Appendix for the site is removed. The following formula will be used to calculate the percent total concentration reduction: total concentration above SSTLs from initial sampling less total concentration above SSTLs from subsequent sampling divided by total concentration above SSTLs from initial sampling. Payment of fifteen percent (15%) of the total bid price will be made upon verification (see Contract Item III.B.10 for the method of verification) that at least sixty percent (60%) of the total CoC concentration above SSTLs is removed.

The following is an example to demonstrate the CoC Concentration Reduction Calculation:

Well		Benzene	Toluene	Ethylbenzene	Xylene	MTBE	Naphthalene	Conc > SSTL
MW-1	Initial ^A	7,500	4,000	2,000	15,000	3,000	1,000	^A
	SSTL ^B	10	2,000	1,400	10,000	80	50	^B
	Initial > SSTL ^C	7,490	2,000	600	5,000	2,920	950	18,960 ^C
	Subsequent ^D	3,000	1,000	900	13,000	2,000	5	^D
	SSTL ^E	10	2,000	1,400	10,000	80	50	^E
	Subsequent > SSTL ^F	2,990	0	0	3,000	1,920	0	7,910 ^F
MW-4	Initial ^G	150	400	50	250	300	25	^G
	SSTL ^H	5	400	50	250	40	25	^H
	Initial > SSTL ^I	145	0	0	0	260	0	405 ^I
	Subsequent ^J	100	100	1	1	100	1	^J
	SSTL ^K	5	400	50	250	40	25	^K
	Subsequent > SSTL ^L	95	0	0	0	60	0	155 ^L

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Totals	Initial > SSTL ^M	(sum of initial concentration above SSTL for all wells) (C+I)	19,365 ^M
	Subsequent > SSTL ^N	(sum of subsequent concentration above SSTL for all wells) (F+L)	8,065 ^N

Notes: If subsequent sampling indicates a CoC concentration at or below the SSTL and/or a CoC concentration at BDL but the reporting limit is at/or below the SSTL value for any constituent, the value for the concentration reduction will be 0 (no negative numbers).

If subsequent sampling indicates a CoC concentration at BDL but the reporting limit is above the SSTL, the value for any constituent will be the analytical reporting limit.

Concentration Reduction Calculation

$$\text{CoC Concentration Reduction} = \frac{(M-N)}{(M)} = \frac{(19,365-8,065)}{19,365} = 0.5835 * 100 = 58.35\% \text{ CoC Reduction}$$

2. The second concentration reduction goal will be achieved when ninety percent (90%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the Appendix for the site is removed. The formula outlined above will be used. Payment of fifteen percent (15%) of the total corrective action price will be made upon verification (see Contract Item III.B.10 for the method of verification) that at least ninety percent (90%) of the total CoC concentration above SSTLs has been removed.
 3. The third concentration reduction goal will be achieved when one hundred percent (100%) of the initial CoC concentration above the SSTLs from the monitoring wells specified in the Appendix for the site is removed. The formula outlined above will be used. Payment of ten percent (10%) of the total corrective action price will be made upon verification (see Contract Item III.B.10 for the method of verification) that one hundred percent (100%) of the total CoC concentration above SSTLs has been removed. **Achievement of this goal must be verified by split sampling with the SCDHEC.**
 - C. The final twenty percent (20%) of the total corrective action price will be paid upon receipt of an invoice and verification that CoC concentrations do not exceed the SSTLs defined in the Appendix for the site and SSTLs calculated for any point in the area of concern for that site. Verification that the SSTLs have been achieved will be based upon groundwater quality samples collected from all existing monitoring wells and additional verification wells to be installed at locations and depths designated by SCDHEC (see Contract Item III.B.10 for more details); and 2) all remediation and assessment items (e.g., wells [including pre-existing wells], trenches, etc.) are removed from the site or properly abandoned. The SSTLs for the site are given in the Appendix.
10. **NOTIFICATION FOR FAILURE TO PERFORM:** If the contractor fails during the course of this contract to make reasonable progress toward the cleanup goals or to meet any condition or specification of corrective action as outlined in this document without prior notification to the project manager of circumstances legitimately beyond the control of the contractor, SCDHEC will, on the first occurrence, notify the contractor by certified letter and meet with them to establish a remedy for the deficiency(ies). If the contractor corrects the deficiency(ies) within an agreed to period of time, the corrective action award will continue. If the contractor does not correct the deficiency(ies) within the agreed to period of time, the contractor will be in

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breach of contract and the corrective action award may be voided by SCDHEC. On the second occurrence, SCDHEC will notify the contractor and their bonding agent or creditor by certified letter and meet with them to establish a remedy for the deficiency(ies). If the contractor corrects the deficiency(ies) within an agreed to period of time, the corrective action award will continue. If the contractor does not correct the deficiency(ies) within the agreed to period of time, the contractor will be in breach of contract and the corrective action award may be voided by SCDHEC. **If the contractor fails on a third occasion during the course of this contract to meet any condition or specification established in this document, the contractor will be in breach of contract and the corrective action award will be voided by SCDHEC.** SCDHEC will notify the contractor and their bonding agent or creditor by certified letter that the corrective action award has been voided and will initiate appropriate actions with the bonding agent. **In the event that the corrective action award is voided due to a breach of contract as outlined above, no further payment of any invoices will be made.** If the corrective action award is voided under the conditions listed above, the contractor will incur a six-month suspension from bidding on any UST-related solicitations in South Carolina and may be subject to suspension or decertification in accordance with the SUPERB Site Rehabilitation and Fund Access Regulations, R.61-98.

11. **CANCELLATION:** The accepted corrective action cost will be final and will not be increased or cancelled for any reason (e.g., unanticipated iron fouling of a system, wells clogging because of biological activity or sediments, damage by lightning, increased subcontractor costs, loss of utilities, modification to the system to meet the remediation goals, etc.) with the exception of unforeseen subsurface conditions as determined solely at the discretion of the SCDHEC or identification of additional CoC from a release occurring after the award of this contract that adversely impacts the corrective action. Contractor-owned items used on-site for the contract that are damaged or destroyed by common acts of nature, improper maintenance or handling, theft or vandalism will not be replaced or reimbursed by the SUPERB Account. **Payment will only be made for achieving the corrective action goals as specified in this contract. No interim or partial payments will be made once corrective action is initiated, except as follows:** Once site rehabilitation has been initiated under this contract, in the event of a cancellation due to the circumstances prescribed in this condition, final payment will be a percentage of the contract amount equal to the actual percent reduction of the CoC concentration as calculated based on the last sampling results from all wells listed in the Appendix for the site less the amount previously paid.
12. **PERFORMANCE BOND:** A performance bond, equal to fifty percent (50%) of the award price, will be required by SCDHEC for the site and should be submitted with the CAP. **Bonds must be obtained from a surety that is on the Secretary of the Treasury's list of acceptable sureties for Federal bonds.** The original performance bond will be submitted to the Bureau of Land and Waste Management, UST Program, Attn: Financial Section, within 30 days of award. The performance bonds will specify that the SUPERB Account will be the recipient of any forfeiture. **The performance bond must bear the SCDHEC Permit ID Number and the Bid Number.** Since SCDHEC is responsible for disbursement of funds from the SUPERB Account, the financial responsibility mechanisms (i.e., bonds) will be held by the Bureau of Land and Waste Management, UST Program until the work is successfully completed at the awarded site. **The performance bond for the site must be kept current for**

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the duration of the corrective action. Failure to maintain the performance bond may result in the corrective action award being voided by SCDHEC in accordance with Contract Item II.A.10.

B. SPECIFIC REQUIREMENTS

1. **CONTRACT SCOPE:** This contract is for active corrective action at one site in South Carolina.
2. **INQUIRIES:** Questions or requests for information must be submitted in writing and received by 5:00 P.M. on the date specified in Section I.C of this solicitation. After this date, no further questions will be addressed. A written response will be provided to all requestors of the solicitation. The questions may be faxed to E. Madison Winslow in the SCDHEC Bureau of Business Management at (803) 898-3505.
3. **PROVISION FOR EARLY COMPLETION INCENTIVE:** The SCDHEC will pay the Contractor an incentive of ten percent (10%) of the Cleanup Cost for early completion, subject to the conditions set forth in this provision. Payment will be made if the remediation goals on a given site have been met in accordance with the terms and conditions of this contract prior to the end of the Site Incentive Period, as established by the SCDHEC, and verified in accordance with Contract Item III.B.10.

The Site Incentive Period will commence on the Corrective Action System Startup Date. A month starts at 12:00 Midnight on the same day of the month as the Corrective Action System Startup Date and ends at Midnight preceding the same day of the following month. Months will be consecutively counted from the corrective action system startup date. Following system startup at a site, the SCDHEC will provide the Contractor notice in writing of the closing date of the Site Incentive Period for the site.

The Site Incentive Period will not be adjusted for any reason, cause or circumstance whatsoever, regardless of fault, save and except in the instance of a catastrophic occurrence directly and substantially affecting the Contractor's operations and resulting in unavoidable delay of the cleanup. In the event of a catastrophic occurrence on a specific site, the SCDHEC shall determine the number of months reasonably necessary and due solely to such catastrophic occurrence to extend the Site Incentive Period. Any amendments to the Site Incentive Period will be provided to the Contractor in writing.

The parties anticipate that routine delays may be caused by or arise from any number of events during the course of site rehabilitation, including, but not limited to, work performed, work deleted, supplemental agreements, delays, disruptions, differing site conditions, utility conflicts, design changes or defects, extra work, right of way issues, permitting issues, actions of suppliers, subcontractors or other contractors, actions by third parties, expansion of the scopes of the projects by the Contractor to make them functional, weather, weekends, holidays, suspensions of the Contractor's operations, or other such events, forces or factors experienced in environmental work. Such delays or events and their potential impacts on performance by the Contractor are specifically contemplated and acknowledged by the Contractor in entering into this Contract, and shall not affect the Site Incentive Period or incentives set forth above.

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Further, any and all costs or impacts whatsoever incurred by the Contractor in accelerating the Contractor's work to overcome or absorb such delays or events in an effort to complete the site within the Site Incentive Period, regardless of whether the Contractor successfully does so or not, shall be the sole responsibility of the Contractor in every instance.

The Contractor shall have no rights under the Contract to make any claim arising out of this incentive provision except as is expressly set forth in this provision. The Site Incentive Period for this project is as follows:

Permit #	Site Name	Appendix	Site Incentive Period
11814	Snider's Stop & Shop	A	36 months

4. **SITE SPECIFIC DETAILS:** A brief technical summary of the release, including location map and specifics of existing wells for the site are attached in Appendix A. The complete technical file for the site will be available for review through the Freedom of Information (FOI) Office located at the Stern Building, 8911 Farrow Road, Columbia, SC. **Offerors are strongly encouraged to review the file to ensure a complete understanding of the project requirements. The successful offeror will be responsible for all information in the technical files.** Appointments to view the technical file may be scheduled on weekdays between the hours of 8:30 A.M. to 5:00 P.M. by calling the SCDHEC Freedom of Information Office at (803) 898-3882. **NOTE: Free-phase product may be present at this site. The application of corrective action technologies or natural fluctuations in the water table can result in the mobilization or possible appearance of free-phase product or elevated CoC concentrations in the monitoring wells.**

III. SPECIFICATIONS for CORRECTIVE ACTION

A. GENERAL SPECIFICATIONS

1. **SUBMITTALS:** All offerors must meet the following specifications for the site as required by the proposed treatment method(s) or corrective action technology(ies). Submit the Corrective Action Solicitation Response. The response will outline in general terms an approach to achieve the remediation goals (e.g., reduction of each CoC to SSTL). The proposal must outline the following:
 - a) A description of the proposed treatment method(s) or technology(ies) for corrective action.
 - b) The amount of time in months to complete site rehabilitation to meet the remediation goals, install verification wells, and remove or abandon all assessment and remediation items.
 - c) The total cost (in U.S. dollars) to complete site rehabilitation to meet the remediation goals and to remove or abandon all assessment and remediation items.
2. **MINIMUM REQUIREMENTS:** Corrective action will be considered complete at the site once the levels of CoC are verified to be at or below the SSTLs listed in the Appendix and SSTLs calculated for any point in the area of concern, and all remediation and assessment items installed by the contractor (e.g., wells [including pre-existing wells], trenches, etc.) are removed or abandoned. See Contract Item III.B.10 for the method of verification. All rehabilitation activities associated with a UST release must be performed by a SCDHEC certified Class I Site

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Rehabilitation Contractor as required by R.61-98. All corrective action plans and reports must be sealed by a Professional Engineer or Professional Geologist registered in the State of South Carolina. All engineering reports, drawings and plans must be sealed by a Professional Engineer registered in the State of South Carolina. All laboratory analysis for CoC must be performed by a SC certified laboratory. All monitoring, verification, injection, or recovery wells must be installed and abandoned by a SC certified well driller. The corrective action methods or technologies will be designed to prevent vapors from entering onsite or adjacent structures. All applicable certification, training, permits, applications, and fees associated with well installation; injection, discharge, treatment, or transportation of groundwater, air, or soil; construction or operation of a remediation system; and any other action requiring a permit are the responsibility of the contractor. Any required business or occupation license and occupational safety and health training (e.g., OSHA) as defined by the laws and regulations of the United States of America, the State of South Carolina, the county or city is also the responsibility of the contractor. The terms and conditions of all applicable permits will be met. Any contaminated groundwater, soil, or construction material must be properly transported and disposed of, or treated at an approved facility with prior approval from SCDHEC. Any costs for utilities construction and service (electric, telephone, sewer, etc.) required by the corrective action are the responsibility of the contractor.

B. PERFORMANCE REQUIREMENTS

1. **CORRECTIVE ACTION PLAN:** The successful contractor must complete and submit a detailed Corrective Action Plan for the site within 30 days from the date the Purchase Order is issued by the Bureau of Business Management. Copies of the CAP must be distributed in accordance with Section II.A.8. **NOTE: Use of monitoring well(s) for injection, extraction, or free-phase product recovery purposes is not allowed.** A condition of the CAP may include installation of additional recovery, sparge, compliance, or injection wells. The CAP must define all active (pump and treat, sparge, vapor extraction, excavation of impacted soils, bioremediation, etc.) and passive (intrinsic remediation, monitoring, etc.) corrective action method(s) proposed to reduce CoC to SSTLs. It must be shown, by use of scientific models, computations, or discussion, how each CoC will be reduced to the SSTL for each remediation method proposed for the release. Any assumptions used in a model will be listed or shown, as well as appropriate references. All corrective action will require monitoring to verify remediation. General construction details will be included (e.g., install four additional recovery wells, construct a compliance point, install four air injection wells, excavate 3,000 cubic yards of impacted soils, etc.) as well as details of well abandonment and equipment removal. **The corrective action method(s) or technology(ies) will be designed to prevent vapors from entering onsite or adjacent structures.** A remediation timetable including abandonment of wells and removal of equipment will be included with the CAP. The Bureau of Land and Waste Management, UST Program will review the CAP and initiate a public notice period for a maximum of 30 days. The names and addresses of all relevant property owners are provided in the Appendix. The contractor may be required to attend and provide input at one or more public meetings upon request by SCDHEC. Any CAP amendments and modifications arising from public notice must be submitted within 15 days of notification by SCDHEC. The CAP and any amendments or modifications must be sealed by a qualified Professional Geologist or Engineer registered in the State of South Carolina. The owner/operator of the site and any other affected property owners will be consulted and will approve the location

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of the corrective action systems. Permanent systems must be enclosed in fenced areas or small buildings.

2. **PERMIT APPLICATIONS:** Complete and submit all applications for permits (injection, NPDES, BAQC modeling form, thermal treatment, construction, etc.) with the CAP for the site. All submitted applications must comply with the requirements of the respective permitting program. Any required permit changes or corrections will be submitted within 15 days of notification by SCDHEC.
3. **INITIAL MONITORING REPORT:** An initial monitoring report for the site documenting CoC concentrations in all wells and potentiometric conditions prior to start up must be submitted to the Bureau of Land and Waste Management, UST Program **within 45 days** after award. Copies of the initial monitoring report must be distributed in accordance with Section II.A.8.

Based on naturally occurring conditions, the dissolved concentration of petroleum chemicals of concern (CoC) will increase or decrease. For the purposes of this contract, the total CoC concentration for the wells included in the bid package may reasonably increase up to 150 percent or decrease as much as 50 percent. If the total CoC concentration in all wells for the site increases more than 150 percent based on this initial sampling or if measurable free-phase product that has not been previously documented in any report is detected during the initial sampling event, the contractor may request in writing that the award for the site be canceled. **If either of these conditions occurs, the contractor will contact the UST project manager within two days of problem identification and will submit written documentation within five days of notification.** The contractor will be reimbursed based on the following rate schedule:

Subcontract Costs*	Invoice + 15%
Personnel Mobilization	\$ 125.00
Equipment Mobilization	\$ 250.00
Groundwater Sample Collection	\$ 35.00 each
Gauging Free-phase Product	\$ 30.00 per well
Wastewater Disposal	\$ 90.00 per drum
CAP Preparation and Assoc. Costs	\$6,000.00

* Includes laboratory, drilling, electrical, etc.

The rate schedule above does not apply in the event that the corrective action award is voided due to a breach of contract in accordance with Contract Item II.A.10. The contract will be cancelled and the performance bond or irrevocable letter of credit for the site will be returned to the contractor. If the total CoC concentration in all wells for the site decreases more than 50 percent based on this initial sampling the SCDHEC may cancel the award. If the contract is cancelled by SCDHEC, the contractor will be notified by certified letter and an invoice for the above outlined items for the site shall be submitted within 20 days from the date of the certified letter. If the corrective action system is started or treatment is performed, the contractor will be required to complete the contract unless circumstances as outlined in Contract Item II.A.11 are encountered. **Once CAP implementation has been initiated under this contract, in the event of a cancellation due to the prescribed circumstances and before any concentration**

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reduction has been achieved, final payment will not exceed 40 percent of the award price under any circumstances as no reduction of CoC concentration has been accomplished.

4. **CORRECTIVE ACTION PLAN IMPLEMENTATION:** After completing review of the CAP and all permit applications submitted for the site, the Bureau of Land and Waste Management, UST Program will issue a notice to proceed with CAP implementation. The contractor will implement the CAP within 30 days of receipt of the notice to proceed and any required permit to construct. Disruption to the normal business at the site will be kept to a minimum. The contractor will return the site to the condition that existed prior to installation of the corrective action system (e.g., asphalt paved areas will be repaved with asphalt, concrete areas replaced with concrete, grass area will have soil replaced to the original grade and reseeded or sodded with grass, etc.). Upon completion of any required construction, SCDHEC will inspect the system and issue a permit to operate. The contractor will, at all times, keep the site free from waste materials and rubbish related to the corrective action. Until completion of the corrective action, the contractor will keep the premises in a clean, neat and workmanlike condition satisfactory to SCDHEC. All soil and wastewater generated on site will be removed from the site promptly. Manifests documenting the proper disposal of the soil and wastewater must be included in the appropriate report.

Implementation of the CAP is not authorized until the contractor receives correspondence from the UST Program indicating that the required public notice period has been successfully completed and all permits have been issued. If premature implementation occurs, the UST Program will not reimburse those costs from the SUPERB Account, and the bid award will be reduced by that amount. If the SCDHEC agrees with early implementation to better protect human health in an emergency and provides approval in writing, early implementation without any reduction to the corrective action amount will be authorized.

5. **PROPERTY ACCESS:** Gain access to the adjacent properties to sample monitoring wells and to install any corrective action equipment, as required. The contractor will return the adjacent properties to the conditions that existed prior to installation of the corrective action system (e.g., asphalt paved areas will be repaved with asphalt, concrete areas will be replaced with concrete, grass areas will have soil replaced to the original grade and reseeded or sodded with grass, etc.). The Contractor will be responsible for any equipment/wells installed on adjacent properties. Costs to repair/replace components of the remediation system damaged due to the actions of adjacent property owners cannot be paid by the SUPERB Account.
6. **SYSTEM START-UP:** The Contractor will initiate system startup within 15 days of receipt of the Permit to Operate, if required. Remediation as defined in the CAP for the site will begin upon system startup. **If any problem with CAP implementation occurs, the contractor will contact the UST project manager for the site within 24 hours of problem identification and will submit written documentation within five days of notification. *NOTE: Free-phase product may be present at this site. The application of corrective action technologies or natural fluctuations in the water table can result in the mobilization or possible appearance of free-phase product or elevated CoC concentrations in the monitoring wells.***

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7. **REPORTING:** Complete and submit a corrective action system evaluation (CASE) report on a quarterly basis. Deliver one copy of each report to: SCDHEC, Bureau of Land and Waste Management, UST Program, 2600 Bull Street, Columbia, SC 29201. A copy of each report for the site in the Appendix must be delivered to the parties listed on the Distribution List included in the Appendix. The first quarter CASE report for the site is due within 90 days of the permit to operate. The CASE reports must include:
- A. A narrative portion that documents current site conditions, verification of system operation or CAP implementation, and system effectiveness in achieving the remediation goals (e.g., reducing CoC to the SSTLs) as outlined in the CAP. Any system down time and the associated reason(s) will be included in the report.
 - B. Conclusions and recommendations based on the reported data.
 - C. Groundwater laboratory analytical data for all monitoring wells in the following format (additional parameters such as dissolved oxygen may be required):

Analytical Data (µg/l)

Monitoring Well	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
MW-1	7/15/97	145	200	146	1,000	170	47
	10/15/97	140	190	140	900	50	165
MW-2	7/15/97	580	800	300	1,000	60	20
	10/15/97	480	90	257	912	50	19

- D. Groundwater potentiometric data for all monitoring wells in the following format:

Groundwater Data (feet)

Monitoring Well	Date	TOC Elevation	TOC to GW	TOC to FP	FP Thickness	GW Elevation
MW-1	7/15/97	98.0	17.54			80.46
	10/15/97	98.0	17.90			80.10
MW-2	7/15/97	100.0	20.50	20.47	0.03	79.50
	10/15/97	100.0	21.50	21.48	0.02	78.50

- E. A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- F. A CoC map based upon current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well using the following format (additional parameters such as dissolved oxygen may be required):

MW - Number
Benzene (µg/l)
Toluene (µg/l)

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Ethylbenzene (µg/l)

Xylenes (µg/l)

MTBE (µg/l)

Naphthalene (µg/l)

G. Calculation of CoC concentration reduction as outlined in Contract Item II.A.9.B.1.

H. A copy of the SCDHEC approval letter and manifests for any contaminated soil and groundwater removed from the site for treatment and/or disposal.

I. Additional data required by permits (e.g., air analyses, wastewater effluent analyses and amounts, etc.). The data should be reported on a form or in a format specified in the permits, and attached to the monitoring report as an addendum.

All rehabilitation activities associated with the UST release must be performed by a SCDHEC-Certified Class I Site Rehabilitation Contractor. All air, soil, and groundwater analyses must be performed by a South Carolina certified laboratory. The corrective action monitoring reports must be sealed by a Professional Engineer or Geologist registered in the State of South Carolina. All monitoring wells, water supply wells, and surface water locations associated with each release will be sampled on a quarterly basis for the first year following implementation/system start-up. CASE reports must be submitted in accordance with the established monitoring schedule regardless of the operational status of the corrective action system. Thereafter, the number of monitoring wells sampled may be reduced or the interval between CASE reports may be lengthened upon clear demonstration of CoC reduction, unless restricted by permit requirements. Approval of any reduction in the number of wells to be sampled or change in the interval between submittal of CASE reports is at the sole discretion of SCDHEC. Any approval to reduce the number of wells sampled or the frequency of sampling must be in writing from the UST Program. SCDHEC may require data to be reported on a form or in a specific format. The contractor will be provided with the proper report forms and format prior to system startup. The contractor will be notified of any revisions to the report forms or format 90 days prior to the due date for the next CASE report.

8. **GROUNDWATER & ADDITIONAL SAMPLING:** Collect one (1) water sample per monitoring event for all monitoring wells, water supply wells, and surface water locations associated with the release for the site (see Appendix). If free-phase product appears that was not documented in the baseline data, the thickness of product and depth to groundwater must be recorded to the nearest 0.01 foot. If required, the well shall be purged prior to sampling and pH, temperature, dissolved oxygen, and specific conductance recorded. For those monitoring wells where the water level is within the screened interval, groundwater samples should be collected without purging. For those monitoring wells where the water level is not within the screened interval, purging must be conducted. All water supply wells must be purged prior to sampling. Purging is considered complete once three well volumes have been removed or the pH, temperature, dissolved oxygen, and specific conductance have equilibrated, yielding two consecutive readings with all parameters within ± 10 percent, whichever comes first. Sampling logs should note all field measurements, as well as the location and type of each sample submitted for laboratory analysis. Each groundwater sample will be collected in accordance with established QA/QC protocol and submitted to a

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certified laboratory for analysis. The samples must be analyzed for the parameters listed in the Appendix.

Additional samples (air, groundwater, effluent, soil) required by permits must be collected in accordance with established QA/QC protocol and submitted to a certified laboratory for analysis. The samples will be analyzed for parameters stipulated in the permits. Sampling and analytical data for each sample (e.g., field sampling logs, chain of custody forms, certificates of analysis, and the lab certification number) will be included in the CASE report.

9. **DISPOSAL:** Properly dispose of all contaminated soil and groundwater generated during the implementation of the CAP and installation of verification wells for the site. The disposal facility selected for treatment and disposal of any contaminated soil and groundwater must be a SCDHEC-approved facility. The owner/operator of the UST facility is considered the generator for any contaminated soil and groundwater. The contractor must document disposal of contaminated soil and groundwater in the CASE reports.
10. **QUALITY ASSURANCE:** If the remediation technology is in-situ (e.g., pump and treat, air sparging, vapor extraction): suspend operation of the system once the remediation goals for all CoC have been maintained for a period of 30 days. Samples are to be taken one (1) quarter after the date established by the SCDHEC as the start of the post-remediation verification period and again after a second quarter. Along with the parameters listed in the Appendix for the site, the groundwater samples should also be analyzed for the following parameters:

Analyte	Analytical Method*	Reporting Limit (µg/l)
Dissolved Oxygen	SM4500-O G	500
Ferrous Iron	SM3500-Fe D	30
Methane	Kerr	1000
Nitrate	9056/9210	100
Sulfate	9038/9056	1000

*or EPA equivalent method that can achieve the same reporting level

If sample results indicate that the remediation goals are not sustained, the contractor must submit a corrective action status report (3 copies) that outlines the deficiency(ies) and offers recommendations for achieving the remediation goals with a revised timetable. Modifying and restarting of the system may be necessary. All remediation goals must be again maintained for a minimum of 30 days. Corrective action will then be suspended again and samples taken to verify that remediation goals are sustained. This cycle of activity, including status reports, will be repeated until all CoC levels remain below SSTLs for all wells listed in the Appendix for two (2) consecutive quarters. Verification wells may be installed at locations and depths designated by SCDHEC (See Appendix for number of verification wells for the site). Costs for verification well installation are considered part of the Cleanup Cost. Each well will be sampled in

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accordance with Contract Item III.B.8 and the analyses compared to the calculated SSTLs for the CoC at that well location. If the laboratory analyses are at or below the SSTLs, corrective action will be considered complete. If any analyte is above the SSTL, the corrective action will not be considered complete, and the activity cycle described above must be repeated until all CoC levels remain below SSTLs for those wells listed in the Appendix for the site. Split or duplicate samples may be collected by SCDHEC (or its subcontractors) to verify achievement of remediation goals. In addition to the groundwater collected from the monitoring wells, the UST Program may provide up to three standards or prepared blanks for the contractor's laboratory to analyze. The laboratory analysis from the contractor's and the UST Program's laboratory will be compared. In the event of substantial variance (more than 15%), a second sampling event with field and trip blanks will be sent to a SC certified laboratory by the UST Program for analysis. The contractor will be notified when the wells will be resampled, can observe this second sampling event, and will be provided analytical results for comment. SCDHEC Laboratory Certification will be provided copies of all sample data sets with all relevant quality assurance/quality control data to assist the UST program in determining the cause of a laboratory variation. The Director of the Assessment and Corrective Action Division will make the final decision on which analytical values will be the basis for payment or closure with input from the site rehabilitation contractor, SCDHEC Laboratory Certification, the UST Section Manager, and the UST Project Manager. The site rehabilitation contractor will be provided a written record of any decision. **At least two weeks notice will be provided to the UST Project Manager prior to mobilizing to the site for sampling to verify attainment of remediation goals.** Costs for transportation and analysis of split or duplicate samples will be paid by SCDHEC.

11. **DEMOBILIZATION:** Disassemble and remove the remediation system and all associated remediation items including utilities from the site within 60 days of notification by SCDHEC that the remediation goal for the release associated with the UST(s) at the site has been achieved. Disruption to the site's normal business will be kept to a minimum.
12. **SITE RESTORATION:** Properly abandon all monitoring, recovery, and/or injection wells (including pre-existing wells), borings, trenches, and piping/utility runs installed by the contractor as part of corrective action within 60 days of notification by SCDHEC that the remediation goal for the release associated with the UST(s) at the site has been achieved. The abandonment will be in accordance with South Carolina Well Standards and Regulations R. 61-71 and accepted industry standards for abandonment of trenches and piping/utility runs. Disruption to the property owner's normal business will be kept to a minimum. The contractor must notify SCDHEC of the method of well abandonment and final disposal of any contaminated soil or groundwater. The contractor will return the site to the condition prior to corrective action (e.g., asphalt paved areas will be repaved with asphalt, concrete areas will be replaced with concrete, grass areas will have soil replaced to the original grade and reseeded or sodded with grass, etc.).
13. **COMPLETION NOTICE:** The Contractor shall provide the SCDHEC with written notice at least two weeks prior to Completion. This will allow the Project Manager and Contractor time to jointly inspect the project and, if necessary, make a Completion Punch List of work to be finished. Items on the Punch List may include, but are not limited to well abandonment, pavement repair, debris removal, etc. The date of Completion will be determined by the Project Manager when all Punch List work is completed.

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IV. BID AWARD

A. ACCEPTANCE and DELIVERY STATEMENT

In compliance with the solicitation and subject to all conditions thereof, the offeror agrees, if this bid is accepted within _____ days from date of opening, to complete the corrective action as specified at the prices set forth for the site as stated below.

For the purpose of this submittal and acceptance of financial approval should it occur, I certify that this company understands the nature of the releases and the geologic conditions at this site as documented in the technical file and this solicitation. **Any quantities listed in the corrective action method(s) below are estimates and changes to those quantities or to the listed method(s) will not affect the bid price.** Additionally, I certify that this company understands that acceptance is based on total cost to treat the areas of concern.

Contractor (Print) Certification No. _____

Authorized Representative (Print) Signature

B. CORRECTIVE ACTION SOLICITATION RESPONSE

Please respond to the following questions. :

SITE A -Snider's Stop & Shop, (UST Permit #11814), 12595 Low Country Hwy, Ruffin, SC.

1. The corrective action method(s) or technology(ies) that will be proposed in the CAP will be:

2. The Corrective Action Completion Time, in months, to complete the corrective action from the date of corrective action system startup until corrective action goals are met is _____ months.

3. The Corrective Action Cost, in whole dollars, regardless of the type, quantity, or duration of the permitted technology applied, to treat the area of concern (see Attachment A, Figure #5) such that the levels of CoC do not exceed the site-specific target levels (SSTLs) defined in Contract Item II.A.9.C at any point, complete all associated monitoring and post-remediation verification, prepare all plans, reports, and correspondence; obtain and meet all terms and conditions of all required permits and licenses; design, install, monitor, operate, maintain, and when completed, properly abandon or remove all assessment and remediation items installed as part of corrective action; provide evidence of performance bond; and other items outlined in this solicitation is:

\$ _____

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PLEASE READ THE FOLLOWING CAREFULLY PRIOR TO COMPLETING BID

INSTRUCTIONS TO BIDDERS

DISCUSSIONS AND NEGOTIATIONS: By submission of a bid, bidder agrees that during the period following issuance of this solicitation and prior to notification of intent or award of a contract, the bidder shall not discuss this procurement with any party except members of the DHEC Procurement Division or other parties designated in this solicitation. Bidder shall not discuss or attempt to negotiate with the using area or program any aspects of the procurement without prior approval of the DHEC Procurement Division Buyer responsible for the procurement. Infractions may result in rejection of the violator's bid.

1. Unless otherwise required herein, only one signed copy of the invitation to bid is required.
2. Bids "faxed" directly to the DHEC Procurement Office will not be accepted or considered for award.
3. Bids, amendments thereto or withdrawal request must be received by the time advertised for bid opening. It is the bidder's sole responsibility to insure that these documents are received by the person (or office) at the time indicated in this solicitation document. DHEC Underground Storage Tank Environmental Remediation Procedures shall govern any withdrawal request received after the time of the bid opening.
4. When specifications or descriptive papers are submitted with the bid submission, enter bidder's name thereon.
5. Submit your signed bid on this form. Show the bid number on the envelope as instructed. DHEC assumes no responsibility for unmarked or improperly marked envelopes. All envelopes received showing a bid number are placed directly under locked security until the date and time of opening. Do not include more than one bid invitation per envelope. If directing any other correspondence, address the envelope to the Procurement Officer but do not include the bid number on the envelope since it does not include your bid.
6. Bidders must clearly mark as "CONFIDENTIAL" each part of their bid which they consider to be proprietary information that could be **exempt from disclosure** under Section 30-4-40, Code of Laws of South Carolina 1976 (1986 Cum. Supp.; Freedom of Information Act). If any part is designated as confidential, there must be attached to that part an explanation of how this information fits within one or more categories listed in Section 30-4-40. DHEC reserves the right to determine whether this information should be exempt from disclosure and no legal action may be brought against the State, DHEC or its agents for its determination in this regard.
7. By submission of a bid, **you are guaranteeing** that all goods and services meet the requirements of this solicitation during the contract period.
8. **Tie bids** will be resolved as outlined in DHEC Underground Storage Tank Environmental Remediation Procedures.
9. **Do not include any taxes** that DHEC may be required to pay in the bid price. Upon submission of a bid by a state agency, the Procurement Officer will compute a 5% sales and use tax to the non-state agency bids when applicable (service and labor excluded) in determining the low bidder. This procedure conforms to the SC Tax Commission Sales and Use Tax Regulation 117-174-.95.
10. **Correction of errors on this bid form:** All prices and notations should be printed in ink or typewritten. Errors should be crossed out, corrections entered and initialed by the person signing the bid. Erasures or use of typewriter correction fluid may be cause for rejection. No bid shall be altered or amended after the time specified for the bid opening.
11. **Ambiguous bids** that are uncertain as to terms, delivery, quantity, or compliance with this solicitation may be rejected or otherwise disregarded.
12. Any bidder desiring to exercise a grievance may do so under section IV of DHEC Underground Storage Tank Environmental Remediation Procedures. All correspondence should be directed to the Director of Procurement Services, Bureau of Business Management, 2600 Bull Street, Columbia, SC 29201.
13. **Failure to respond** to three consecutive bid notices may result in removal of bidder's name from the mailing list.

GENERAL PROVISIONS

14. DHEC reserves the right to reject any and all bids, and to cancel this solicitation.
15. **Unit prices** will govern over extended prices unless otherwise stated in this solicitation.
16. **Prohibition of Gratuities:** Amended section 8-13-420 of the 1976 Code of Laws of South Carolina States: "Whoever gives or offers to any public official or public employee any compensation, including a promise of future employment, to influence his action, vote, opinion or judgment as a public official or public employee or such public official solicits or accepts such compensation to influence his action, vote, opinion or judgment shall be subject to the punishment as provided by Section 16-9-210 and Section 16-9-220. The provisions of this section shall not apply to political contributions unless such contributions are conditioned upon the performance of specific actions of the person accepting such contribution nor shall they prohibit a parent, grand-parent or relative from making a gift to a child, grandchild, or other close relative for love and affection except as hereafter provided".

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17. **Bidder's Qualification:** Bidders must, upon request of DHEC, furnish satisfactory evidence of their ability to furnish products or services in accordance with the terms and conditions of these specifications. DHEC reserves the right to make the final determination as to the bidder's ability to provide the products or services requested herein.
18. **Bidder's Responsibility:** Each bidder shall fully acquaint himself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this solicitation. It is expected that this will sometimes require on-site observation. The failure or omission of a bidder to acquaint himself with existing conditions shall in no way relieve him of any obligation with respect to this bid or to the subsequent contract.
19. **Amendments:** All amendments to and interpretations of this solicitation shall be in writing from the DHEC Procurement Office. Neither DHEC nor the Procurement Officer shall be legally bound by any amendment or interpretation that is not in writing.
20. **Award Criteria:** Award shall be as indicated herein to the lowest responsible and responsive bidder whose bid meets the requirements and criteria set forth in this solicitation. Award may take longer than fourteen days. A copy of the award notice should be posted on Procurement Services' website at: dhec.sc.gov/procurement.
21. **Rejection:** DHEC reserves the right to reject any bid that contains prices for individual items or services that are unreasonable when compared to the same or other bids if the rejection is in the best interest of the State.
22. **Competition:** This solicitation is intended to promote competition. If the language, specifications, terms and conditions, or any combination thereof restricts or limits the requirements in this solicitation to a single source, it shall be the responsibility of the interested bidders to notify the DHEC Procurement Office in writing so as to be received five days prior to the opening date. Notification may be "faxed" to the DHEC Procurement Office, (803) 898-3505. The solicitation may or may not be changed but a review of such notification will be made prior to award.
23. **Order of Precedence:** In the event of inconsistency between provisions of this solicitation, the inconsistency shall be resolved by giving precedence in the following order; (A) the bidding schedule, (B) the specifications, (C) general conditions, (D) special provisions or special conditions of the contract whether incorporated by reference or otherwise, and (E) instruction to bidders.

GENERAL CONDITIONS

24. **Contract Administration:** Questions or problems arising after award of this solicitation/contract shall be directed to the DHEC Procurement Office, 2600 Bull Street, Columbia, SC, 29201. Reference the solicitation and contract number.
25. **Default:** In case of default by the contractor, DHEC reserves the right to purchase any or all items in default in the open market, charging the contractor with any additional costs. The defaulting contractor shall not be considered a responsible bidder until the assessed charge has been satisfied.
26. **Save Harmless:** (This General Condition does not apply to solicitations for service requirements). The successful bidder shall indemnify and save harmless the State of South Carolina and DHEC and all its officers, agents and employees from all suits or claims of any character brought by reason of infringing on any patent, trade mark or copyright. The bidder shall have no liability to DHEC if such patent, trademark or copyright infringement or claim is based upon the bidder's use of material furnished to the bidder by the State.
27. **Publicity Releases:** By submission of a bid, the contractor agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by DHEC or user.
28. **Tax Credit Availability:** Bidders interested in income tax credit availability by subcontracting with Certified Minority Firms should contact the Office of Minority Business Assistance, 1205 Pendleton Street, Columbia, SC, 29201. (803-734-0562)
29. **Affirmative Action:** The successful bidder will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without regard or discrimination by reason of race, color, religion, sex, national origin or physical handicap.
30. **Assignment:** Unless otherwise indicated in this solicitation, no contract or its provisions may be assigned, sublet, subcontracted, or transferred without the prior written consent of the DHEC Procurement Office.
31. **Termination:** Any contract resulting from this solicitation may be terminated by DHEC by providing a thirty-day advance notice in writing to the successful contractor.
32. **Non-Appropriations:** Any contract entered into by DHEC resulting from this solicitation shall be subject to cancellation without damages or further obligation when funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period or appropriated year.
33. **Convenience:** In the event that this contract is terminated or canceled upon request and for the convenience of DHEC without the required thirty days advance written notification, then DHEC shall negotiate reasonable applicable termination costs.

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34. **Cause:** Any contract resulting from this solicitation may be terminated without advance notice by DHEC for cause, default or negligence on the part of the successful contractor.
35. **S.C. Law Clause:** Upon award of a contract under this bid, the person/partnership, association or corporation to whom the award is made must comply with the laws of South Carolina which require such person or entity to be authorized and/or licensed to do business with this State. Notwithstanding the fact that applicable statutes may exempt or exclude the successful bidder from requirements that it be authorized and/or licensed to do business in this State. By submission of a bid, the bidder agrees to subject himself to the jurisdiction and process of the courts of the State of South Carolina as to all matters and disputes arising or to arise under the contract and the performance thereof, including any questions as to the liability for taxes, licenses or fees levied by the State of South Carolina.
36. **Quality of Product:** (This general condition does not apply to solicitations for printing or service requirements.) Unless otherwise indicated in this solicitation, it is understood and agreed that any item offered or shipped as a result of this solicitation shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging. If items that are other than new (i.e., remanufactured or refurbished) are desired to be bid, the bidder must obtain written permission to bid such items at least five days in advance of the bid opening date. Written permission must be obtained from the DHEC Procurement Office.
37. **Compliance with Federal Requirements:** S.C. State or Federal requirements that are more restrictive shall be followed in bidding, awarding and performance of this contract.
38. **Drug-Free Workplace:** Required by Section 44-107-10 (Drug Free Work-Place Act) of the SC Code of Laws, 1976, as amended. By submission of a bid, the bidder certifies that he will comply with all aspects of the Drug-Free Workplace Act and will not engage in the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance in the performance of this contract. This certification also applies to any individual or firm employed by the contractor.
39. **Confidentiality Policy:** The successful contractor agrees to abide by DHEC's policy of confidentiality which states in part that all information as to personal facts and circumstances given or made available to employees and/or contractors of DHEC in administration of programs shall be held confidential and shall not be divulged without the express written consent of the individual(s) to which it pertains.
40. **Item Substitution:** No substitution of items will be allowed on any purchase made from the awarded contract without written permission from the DHEC Procurement Office.
41. **Outside Contractor Program:** If applicable to scope of contract, contracted employees working on DHEC properties are entitled to information about hazardous chemicals present at DHEC; and DHEC's personnel are entitled to information about hazardous chemicals brought to the facilities by contractors. In order to assure continued compliance with the Hazard Communication Standards while contractors are on DHEC property and to control potential compliance obligations under the Superfund Amendments and Re-authorization Act, it is DHEC's policy to:
- A. Obtain written assurance that the contractor's employees have been trained to understand the hazards of the chemicals at DHEC and how to use appropriate personal protective equipment. All personal protective equipment and training required for the contractor's employees will be provided by the contractor at the contractor's expense. (This includes SC State General Services employees).
 - B. Require the contractor to notify the DHEC Bureau of Business Management or the appropriate DHEC unit Director when introducing hazardous chemicals into DHEC work areas, which may harmfully expose DHEC employees. If the contractor is introducing such hazardous chemicals into any DHEC facility or onto DHEC property, the contractor shall provide the DHEC Division of Procurement Services or the DHEC unit Director copies of the Material Safety Data Sheets (MSDS) for those chemicals. The DHEC Division of Procurement Services or the DHEC unit Director should provide appropriate information to the DHEC employees before the contractor(s) enter any DHEC facility with chemicals.
 - C. DHEC reserves the right to refuse to allow any contractor to bring any chemical onto DHEC property. The Department also reserves the right to refuse to allow any contractor to bring certain quantities of chemicals on DHEC property.

APPENDIX

SNIDER'S STOP & SHOP

UST PERMIT #11814

Snider's Stop & Shop, UST Permit #11814

TABLE 1

Distribution List for Plans and Reports – The names and addresses are subject to change as properties are bought and sold.

UST OWNER

174-00-00-037 Aimar Benton, 12595 Low Country Hwy., Ruffin, SC 29475

PROPERTY OWNERS

174-00-00-022 Vickie R Hamm, 3510 Country Rd. #504, Hanceville, AL 35077
174-00-00-036 Daniel & Ruth Biering, 188 Powell Dr., Summerville, SC 29483
174-00-00-038 Angela G. Adams, 1255 Wynford Colony, Marietta, GA 30064
174-00-00-050 J D & Blanche Benton, PO Box 1864, Walterboro, SC 29488
174-00-00-051 Irving & Margie Benton, 206 Oakland Dr., Walterboro, SC 29488
174-00-00-079 Anita Benton, 1926 Aichele Dr., North Charleston, SC 29405

Snider's Stop & Shop, UST Permit #11814

TABLE 2

CoC mass in parts per billion (µg/l) based on June 14, 2006 sampling: (CoC may increase or decrease in the future)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE	Total Mass
MW- 1	<5	<5	<5	<15	<5	<5	
MW- 2	<5	<5	<5	<15	<5	<5	
MW- 3	3,900	15,000	1,200	6,400	490	<5	26,995
MW- 4	450	<5	<5	<15	52	26	553
MW- 6	14,000	24,000	2,100	42,000	770	1,500	84,370
MW- 7	5,200	22,000	3,100	15,800	1,400	370	47,870
MW- 8	<5	<5	<5	<15	<5	<5	
MW- 9	21,000	29,000	2,200	14,500	1,700	8,700	77,100
MW- 10	<5	<5	<5	<15	<5	<5	40
MW- 11	920	6,800	500	2,980	190	<5	11,395
MW- 12	<5	<5	<5	<15	<5	<5	
MW- 13	<5	<5	<5	<15	<5	<5	
MW- 15	<5	<5	<5	<15	<5	<5	
MW- 16	<5	<5	<5	<15	<5	16	51
MW- 17	1,200	17,000	2,700	14,700	830	<50	36,480
TW- 1	<5	<5	<5	<15	<5	<5	40
WSW- 1	<5	<5	<5	<15	<5	<5	40
SW- 1	<5	<5	<5	<15	<5	<5	
Initial Mass¹⁾	46,690	113,825	11,825	96,455	5,452	10,687	284,934
SSTL Mass	660	111,365	11,825	76,135	2,051	3,746	205,782
Initial Mass above SSTL	46,030	2,460	0	20,320	3,401	6,941	79,152

1) CoC mass may change due to seasonal fluctuations in the groundwater. The Initial Mass is calculated only for those monitoring wells that are in **bold**.

Snider's Stop & Shop, UST Permit #11814

TABLE 3

Site-specific target levels (SSTLs) in parts per billion (µg/l)

Well	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	MTBE
MW- 3	40	15,000*	1,200*	6,400*	150	5**
MW- 4	8	5**	5**	15**	36	26*
MW- 6	178	24,000*	2,100*	21,680	535	1,444
MW- 7	65	22,000*	3,100*	15,800*	227	370*
MW- 9	224	26,540	2,200*	14,500*	647	1,815
MW- 10	5**	5**	5**	15**	5**	5**
MW- 11	36	6,800*	500*	2,980*	139	5**
MW- 16	5**	5**	5**	15**	5**	16*
MW- 17	89	17,000*	2,700*	14,700*	297	50**
TW- 1	5**	5**	5**	15**	5**	5**
WSW- 1	5**	5**	5**	15**	5**	5**
Total	660	111,365	11,825	76,135	2,051	3,746

* Laboratory analysis is less than calculated SSTLs; therefore, SSTL mass is set equal to laboratory mass.

** Laboratory analysis is below detection limits; therefore, SSTL mass is set equal to detection limits.

Snider's Stop & Shop, UST Permit #11814

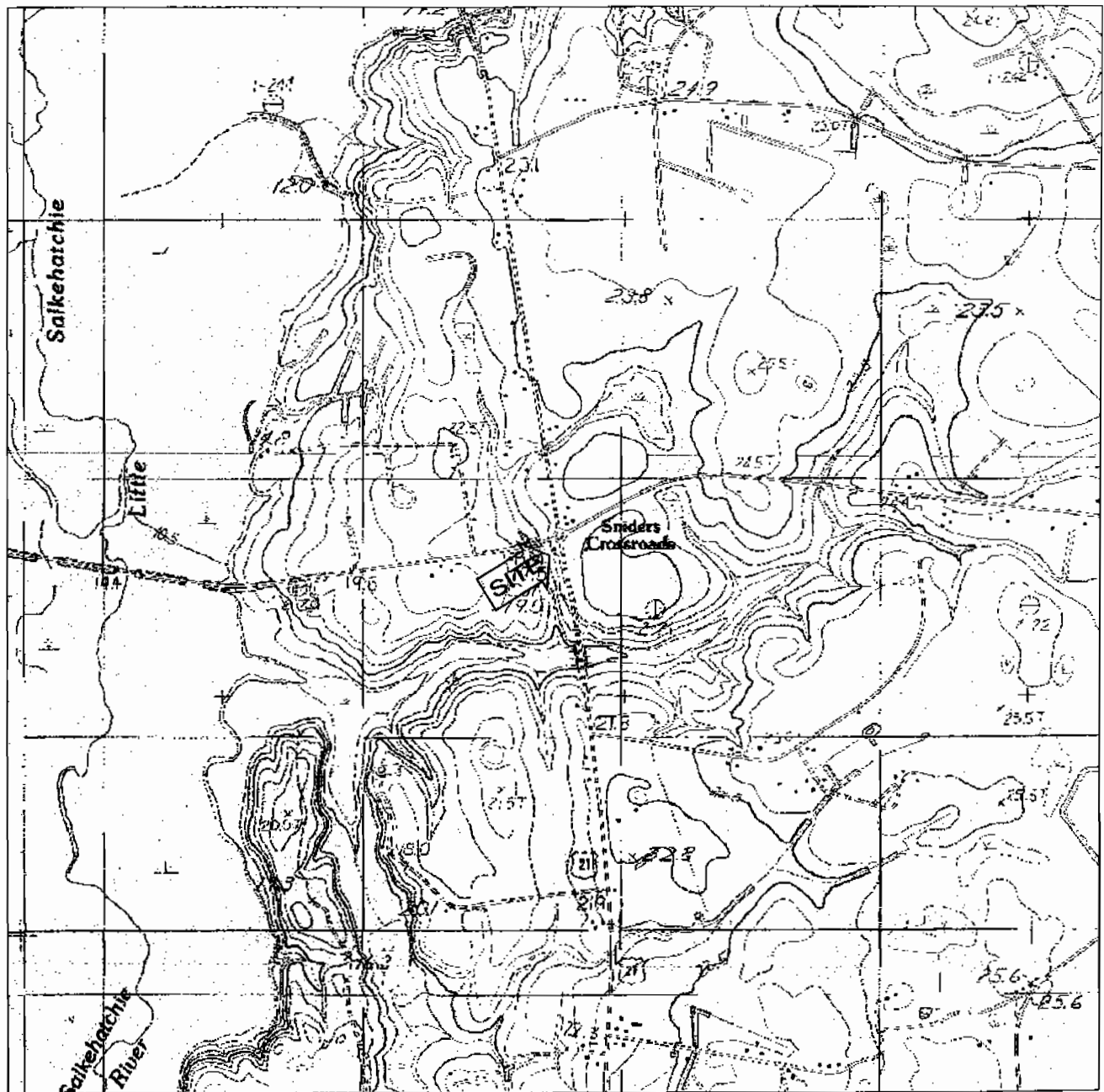
TABLE 4 Analytical Parameters

Analyte	Analytical Method	Reporting Limit (µg/l)
BTEX**	8260B/5030B	5
Naphthalene**	8260B/5030B	5
MTBE**	8260B/5030B	5
EDB*	8011	0.02

**The UST Program no longer accepts equivalent methods for VOC Analysis.

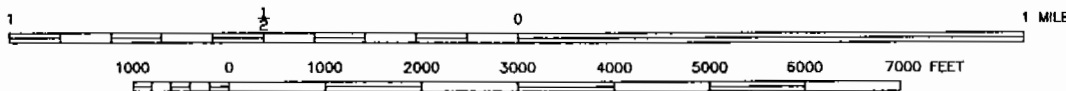
* Sampling for EDB shall be completed on an annual basis during the first quarter, fifth quarter, ninth quarter, etc.

Number of verification wells: 4



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SCALE 1:24,000



CONTOUR INTERVAL 10 FEET

SNIDER'S CROSSROADS, SC QUADRANGLE

QUADRANGLE LOCATION

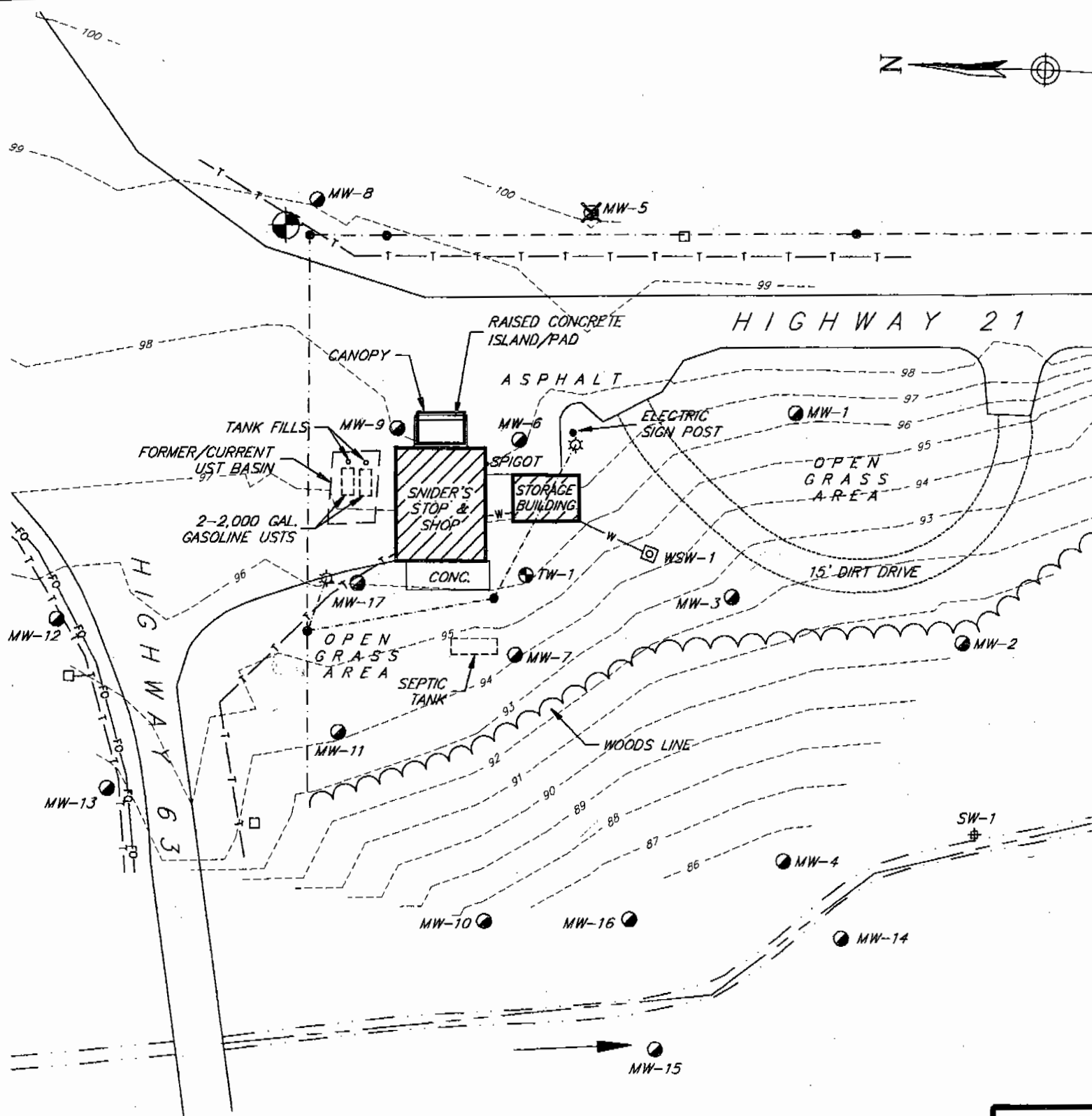


ENVIRONMENTAL SERVICES, INC.

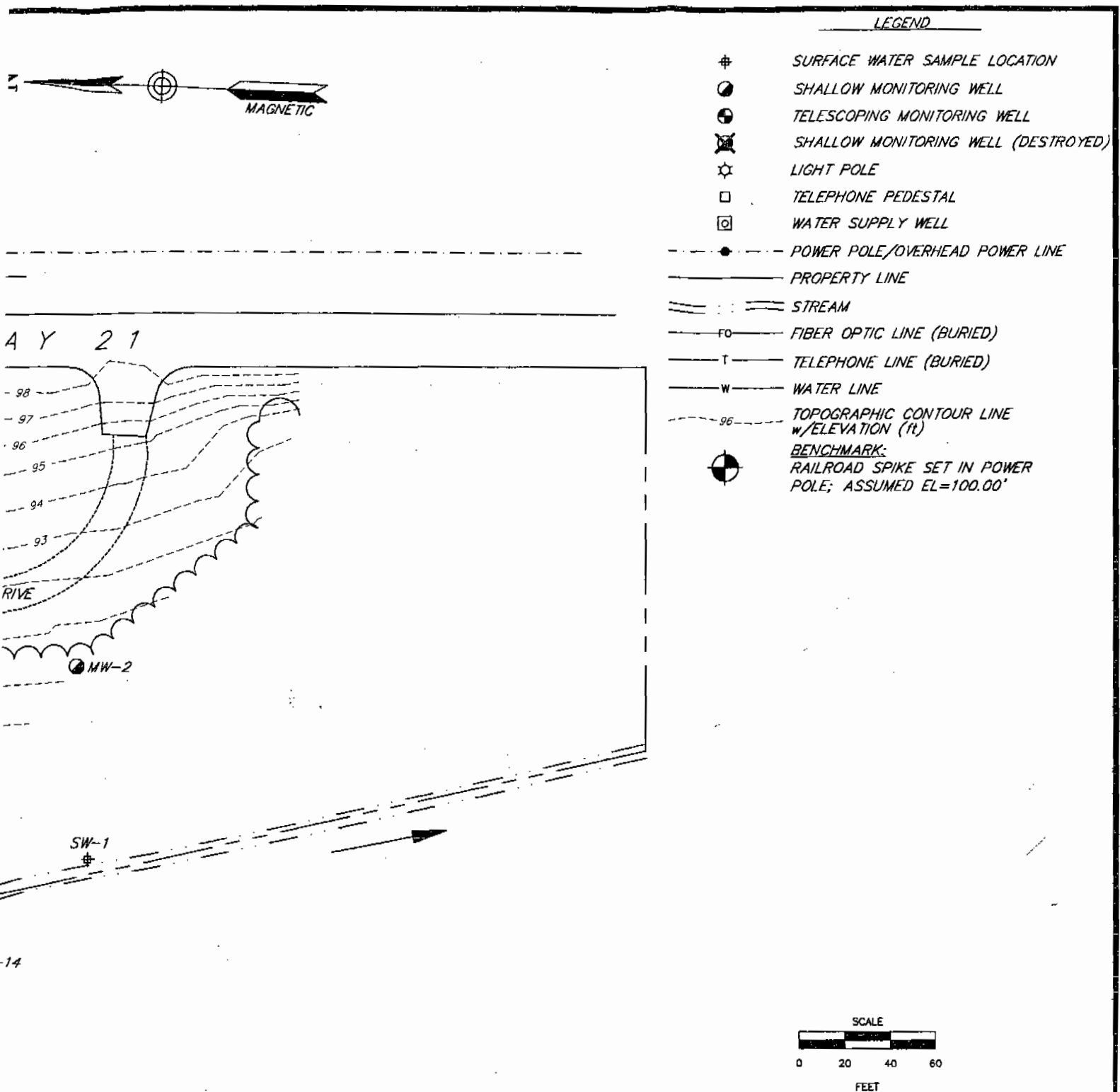
LATITUDE: 32° 53' 16" N
LONGITUDE: 80° 51' 16" W
DRAWN BY: AWB
CHECKED BY: RT

SNIDER'S STOP & SHOP
SC HWY 63 & US HWY 21
SNIDER'S CROSSROADS, SC


FIGURE 1
USGS TOPOGRAPHIC
MAP

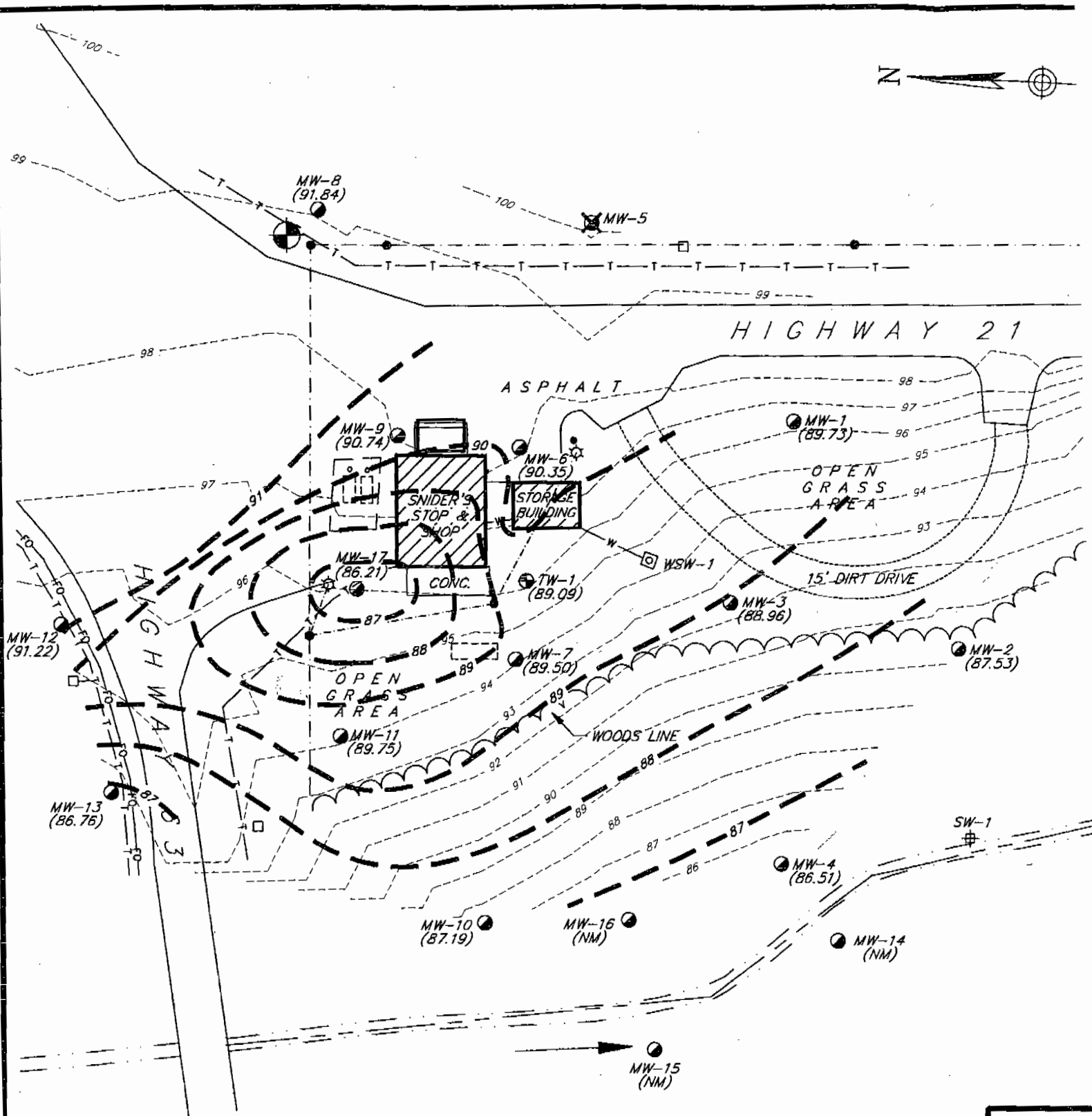


NOTE: FIELD SURVEY CONDUCTED ON MARCH 14, 2000 BY TRICO ENGINEERING CONSULTANTS, INC. UNDER THE SUPERVISION OF ANDREW C. GILLETTE, S.C.P.L.S. NO. 5933-B.

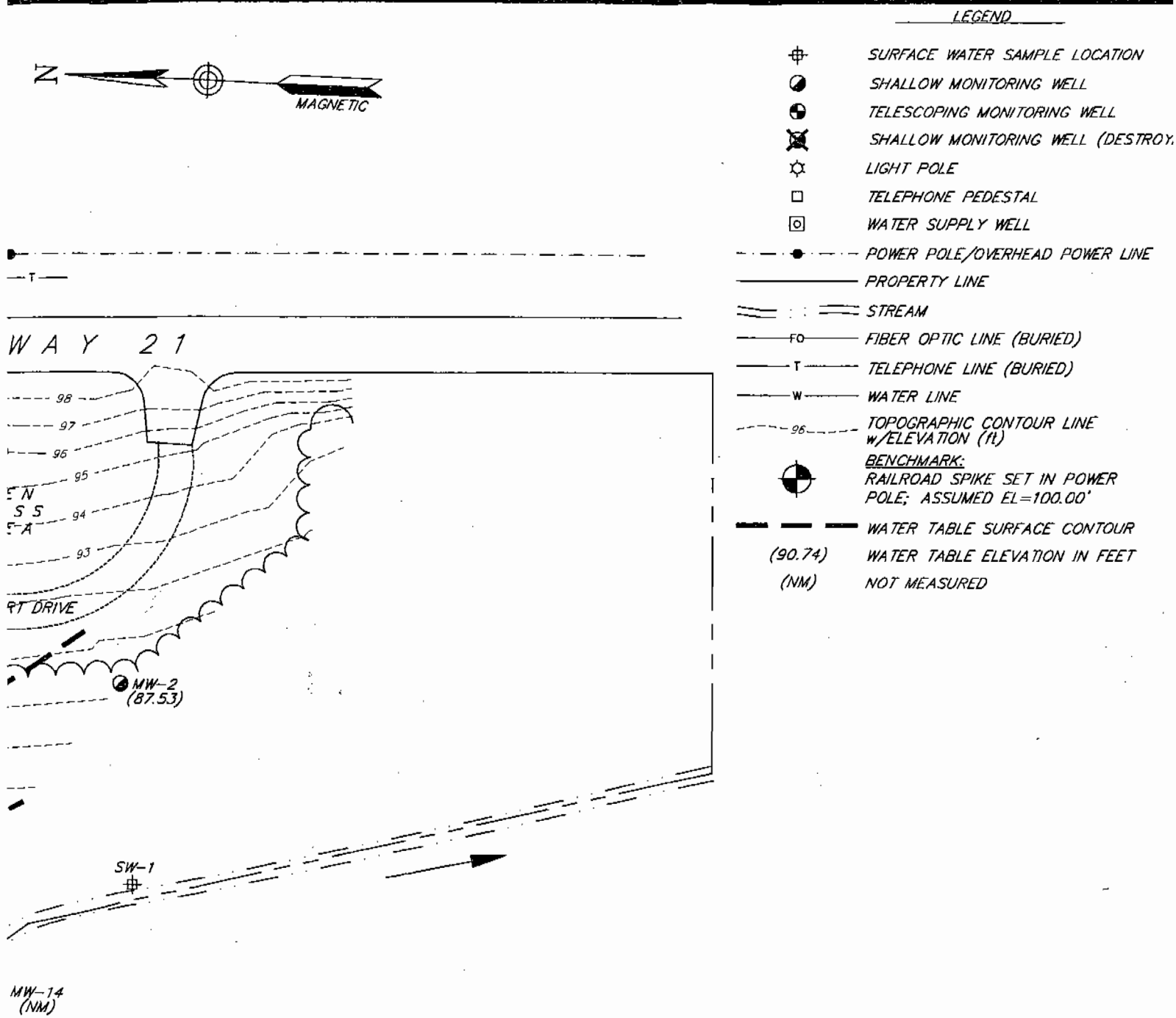


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 <p>CBM ENVIRONMENTAL SERVICES, INC.</p>	<p>SITE I.D. NO. 11814</p> <p>CBM PROJECT NO. 10691</p> <p>DRAWN BY: AWB</p> <p>CHECKED BY: BD</p> <p>DWG DATE: 1/10/06</p>	<p>SITE MAP</p> <p>SNIDER'S STOP & SHOP 12595 LOW COUNTRY HWY SNIDERS CROSSROADS, SC</p>	<p>FIGURE 2</p>

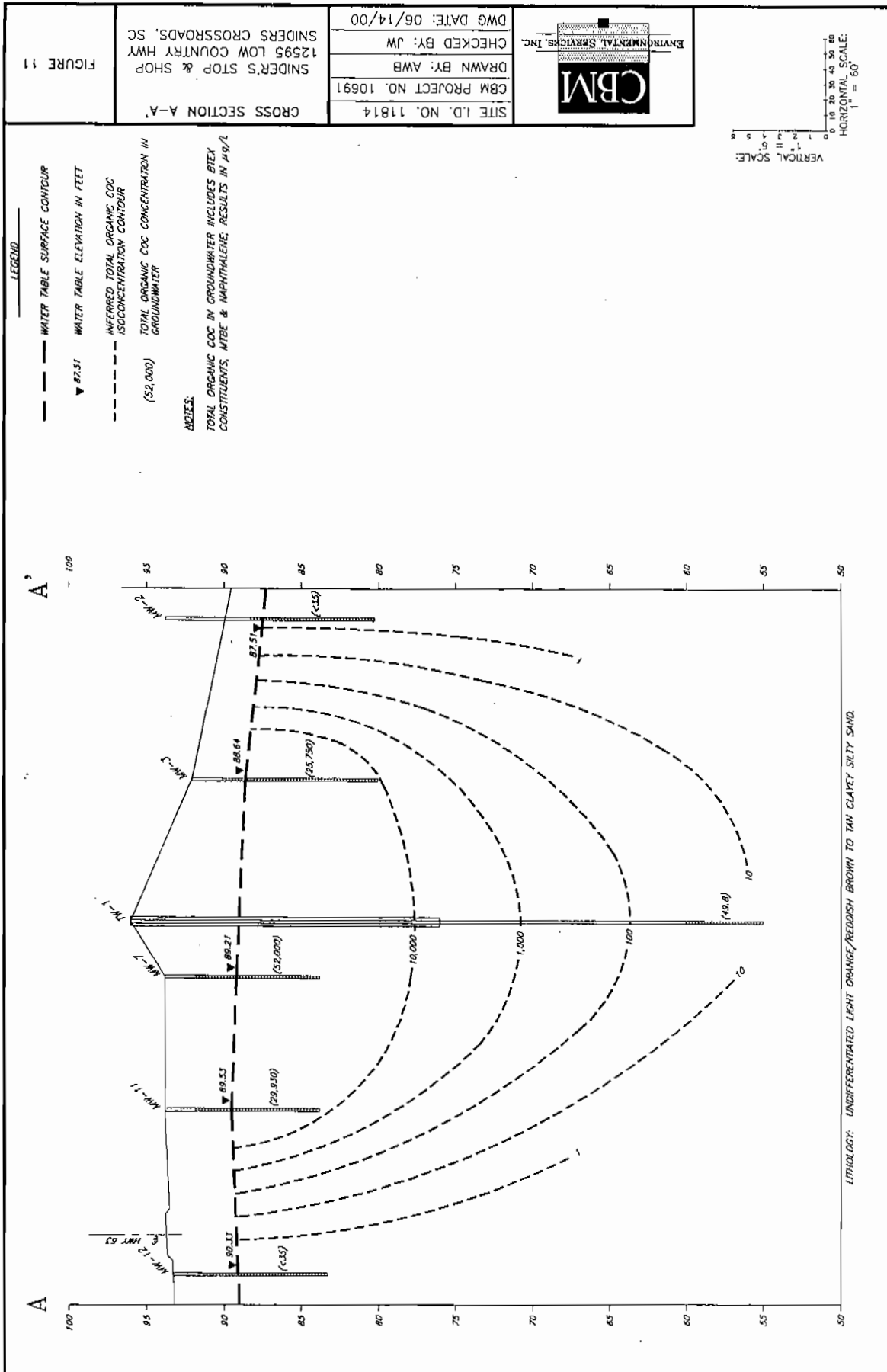


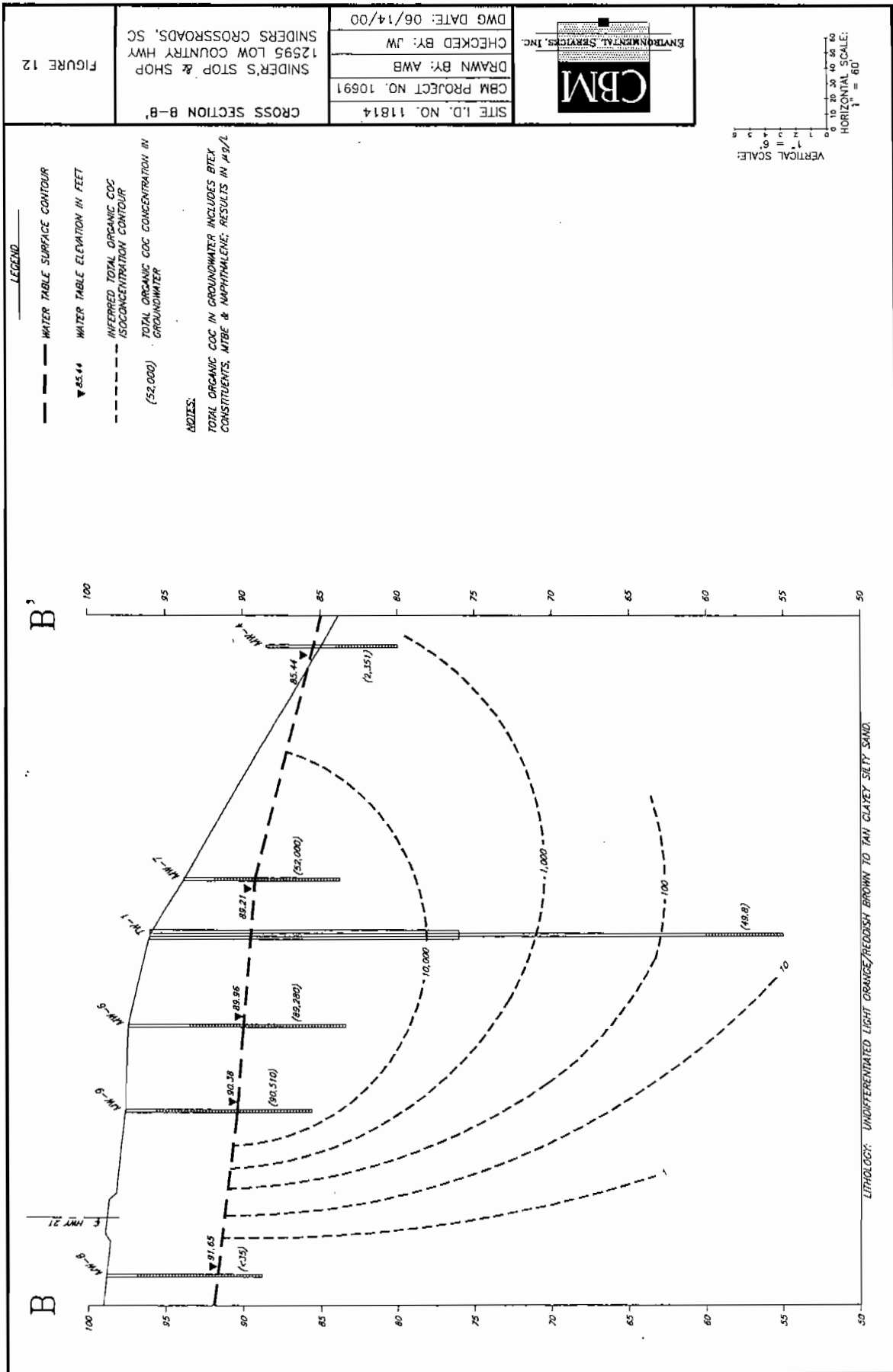
NOTE: FIELD SURVEY CONDUCTED ON MARCH 14, 2000 BY TRICO ENGINEERING CONSULTANTS, INC. UNDER THE SUPERVISION OF ANDREW C. GILLETTE, S.C.P.L.S. NO. 5933-B.



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 ENVIRONMENTAL SERVICES, INC.	SITE I.D. NO. 11814	WATER TABLE SURFACE MAP NOVEMBER 30, 2005 SNIDER'S STOP & SHOP 12595 LOW COUNTRY HWY SNIDERS CROSSROADS, SC	FIGURE 4
	CBM PROJECT NO. 10691		
	DRAWN BY: AWB		
	CHECKED BY: BD		
	DWG DATE: 1/17/06		







LEGEND

- ⊕ SURFACE WATER SAMPLE LOCATION
- SHALLOW MONITORING WELL
- ⊙ TELESCOPING MONITORING WELL
- ⊗ SHALLOW MONITORING WELL (DESTROYED)
- ☆ LIGHT POLE
- TELEPHONE PEDESTAL
- ⊞ WATER SUPPLY WELL

- POWER POLE/OVERHEAD POWER LINE
- PROPERTY LINE
- STREAM
- FO— FIBER OPTIC LINE (BURIED)
- T— TELEPHONE LINE (BURIED)
- W— WATER LINE
- TOPOGRAPHIC CONTOUR LINE w/ELEVATION (ft)

BENCHMARK:
RAILROAD SPIKE SET IN POWER POLE; ASSUMED EL=100.00'

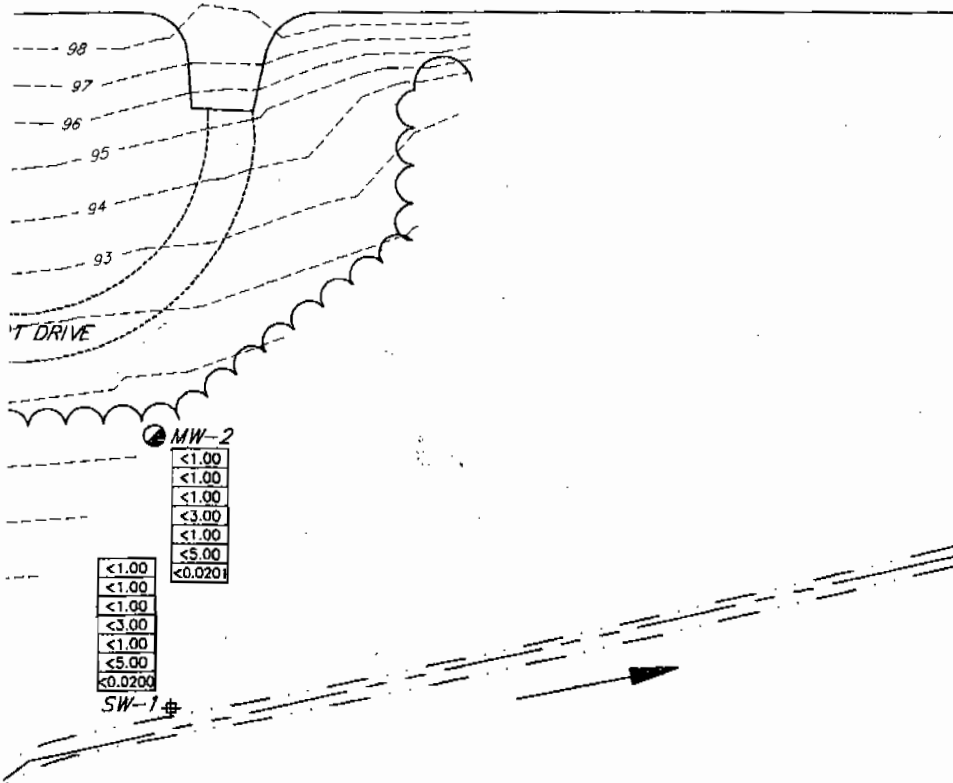
5	BENZENE
1,000	TOLUENE
700	ETHYLBENZENE
10,000	XYLENES
40	MTBE
25	NAPHTHALENE
0.05	EDB

CONCENTRATIONS IN $\mu\text{g/L}$

ABOVE CONCENTRATIONS REPRESENT MAY 2001 RISK-BASED SCREENING LEVELS; CONCENTRATIONS IN BOLD FACE TYPE EXCEEDED THE RBSL

<1.00 - LESS THAN THE REPORTING LIMIT SPECIFIED IN THE LABORATORY REPORT

V A Y 2 1



MW-14

<1.00
<1.00
<1.00
<3.00
<1.00
<5.00
<0.0197

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ENVIRONMENTAL SERVICES, INC.

SITE I.D. NO. 11814
CBM PROJECT NO. 10691
DRAWN BY: AWB
CHECKED BY: BD
DWG DATE: 1/11/06

GROUNDWATER QUALITY MAP
NOVEMBER 30-DECEMBER 1, 2005
SNIDER'S STOP & SHOP
12595 LOW COUNTRY HWY
SNIDERS CROSSROADS, SC

FIGURE 5

TABLE 1
SUMMARY OF GROUNDWATER ELEVATION DATA¹
SNIDER'S STOP AND SHOP

Well Identification	Date Measured	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Depth	Screened Interval
MW-1	3/13/00	96.22	6.87	89.35	15	5 - 15
	7/9/03		5.62	90.60		
	8/10/05		4.40	91.82		
	11/30/05		6.49	89.73		
MW-2	3/13/00	93.79	6.28	87.51	10	2 - 10
	7/9/03		NF ²	--		
	8/10/05		5.39	88.40		
	11/30/05		6.26	87.53		
MW-3	3/13/00	92.09	3.45	88.64	12	2 - 12
	7/9/03		2.81	89.28		
	8/10/05		2.43	89.66		
	11/30/05		3.13	88.96		
MW-4	3/13/00	88.47	3.03	85.44	5	1 - 5
	7/9/03		3.43	85.04		
	8/10/05		NF	--		
	12/1/05		1.96	86.51		
MW-5	3/13/00	99.61	8.72	90.89	12	2 - 12
	7/9/03		NF	--		
	8/10/05		DESTROYED			
	11/30/05		DESTROYED			
MW-6	3/13/00	97.42	7.46	89.96	12	2 - 12
	7/9/03		6.37	91.05		
	8/10/05		4.80	92.62		
	11/30/05		7.07	90.35		
MW-7	3/13/00	93.80	4.59	89.21	10	2 - 10
	7/9/03		4.82	88.98		
	8/10/05		2.87	90.93		
	11/30/05		4.30	89.50		
MW-8	3/13/00	98.82	7.17	91.65	10	2 - 10
	7/9/03		NF	--		
	8/10/05		2.48	96.34		
	11/30/05		6.98	91.84		
MW-9	3/13/00	97.60	7.22	90.38	12	2 - 12
	7/9/03		6.15	91.45		
	8/10/05		4.57	93.03		
	11/30/05		6.86	90.74		
MW-10	3/13/00	90.77	4.30	86.47	5	1 - 5
	7/9/03		1.20	89.57		
	8/10/05		NF	--		
	12/1/05		3.58	87.19		

TABLE 1 (continued)
SUMMARY OF GROUNDWATER ELEVATION DATA
SNIDER'S STOP AND SHOP

Well Identification	Date Measured	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation	Well Depth	Screened Interval
MW-11	3/13/00	93.82	4.29	89.53	10	2 - 10
	7/9/03		3.89	89.93		
	8/10/05		2.80	91.02		
	11/30/05		4.07	89.75		
MW-12	3/13/00	95.24	4.19	91.05	10	2 - 10
	7/9/03		3.32	91.92		
	8/10/05		2.09	93.15		
	11/30/05		4.02	91.22		
MW-13	3/13/00	93.28	2.95	90.33	10	2 - 10
	7/9/03		NF	--		
	8/10/05		NM ³	--		
	11/30/05		6.52	86.76		
MW-14	7/9/03	NA ⁴	3.03	--	10	2 - 10
	8/10/05		NF	--		
	12/1/05		5.24	--		
MW-15	12/1/05	NA	5.59	--	7	4-7
MW-16	12/1/05	NA	3.35	--	7	4-7
MW-17	11/30/05	92.18	5.97	86.21	12	2-12
TW ⁵ -1	3/13/00	96.03	0.61	95.42	41	36 - 41
	7/9/03		6.11	89.92		
	8/10/05		5.57	90.46		
	12/1/05		6.94	89.09	22.56 ⁶	

Notes:

1. Elevations relative to a temporary benchmark with an assumed datum of 100.00 feet; data reported in feet.
2. Not Found. Monitoring well MW-4 was under water August 10, 2005.
3. Not Measured. Monitoring well MW-13 was under water August 10, 2005.
4. Data not available.
5. Telescoping monitoring well.
6. Obstruction inside monitoring well.

Snider's Stop & Shop, UST Permit #11814
Historical data summary

Release reported June 10, 1993, 3 USTs removed from ground April 4, 1989 and replaced by two new USTs

Well	Date	DTW	Benzene	Toluene	Ethylbenzene	Xylenes	Naph.	MTBE	EDB	1,2-DCA	lead	Nitrate	Sulfate	FE+2	methane	DO
MW-1	3/13/2000	6.87	<5	<5	<5	<10	<5	<5	<0.02		64					
MW-1	7/10/2003	5.62	<1	<1	<1	<1	<1	<1								
MW-1	8/10/2005	4.4	<1	<1	<1	<3	<5	<1	<0.02		<5	0.18	<1	<1		0.6
MW-1	11/30/2005	6.49	<1	<1	<1	<3	<5	<1	<0.02		<3	2.4	12	<2		3.94
MW-1	6/14/2006	6.97	<5	<5	<5	<15	<5	<5	<0.02	<5						5.45
MW-2	3/13/2000	6.28	<5	<5	<5	<10	<5	<5	<0.02		37					
MW-2	7/10/2003				well not found											
MW-2	8/10/2005	5.39	<1	<1	<1	<3	<5	<1	<0.02		<5	10.4	1.25	0.393		4.54
MW-2	11/30/2005	6.26	<1	<1	<1	<3	<5	<1	<0.02		4	11	13	<2		3.71
MW-2	6/14/2006	6.07	<5	<5	<5	<15	<5	<5	<0.02	<5						
MW-3	3/13/2000	3.45	6,200	11,000	1,500	6,600	450	<200	<0.02		60					
MW-3	7/10/2003	2.81	3,300	6,160	840	3,110	<500	<100				<1	<1	12.6	54	1.4
MW-3	8/10/2005	2.43	346	971	91	760	38	<1	<0.02		<5	<1	<1	5.12		3.15
MW-3	11/30/2005	3.13	229	357	112	352	43	<1	<0.02		13	<1	13	0.47		2.65
MW-3	6/14/2006	3.55	3,900	15,000	1,200	6,400	490	<5	0.68	<5						
MW-4	3/14/2000	3.03	1,600	160	64	100	97	330	<0.02		240					
MW-4	7/10/2003	3.43	223	67	33	33	54	169				<1	<1	7.53	<26	1.1
MW-4	8/10/2005			well not found, under water												
MW-4	11/30/2005	1.96	446	2	<1	<3	39	46	<0.02		<3	0.14	11	<2		3.26
MW-4	6/14/2006	3.89	450	<5	<5	<15	52	26	<0.02	<5						
MW-5	3/14/2000	8.72	<5	<5	<5	<10	<5	<5	<0.02		120					
MW-5	7/10/2003				well not found											
MW-5	8/10/2005				well destroyed											
MW-6	3/14/2000	7.46	21,000	44,000	3,200	17,000	980	3,100	<0.02		37					
MW-6	7/10/2003	6.37	11,000	19,400	2,100	12,300	<2,500	1,200				<1	<1	4.34	100	0.6
MW-6	8/10/2005	4.8	14,900	22,400	1,500	8,240	718	1,250	3.736		13	<1	<1	8.29		4.34
MW-6	11/30/2005	7.07	13,100	20,600	1,680	13,900	1,160	4,530	14.8		19	<1	11	5.9		2.37
MW-6	6/14/2006	8.29	14,000	24,000	2,100	42,000	770	1,500	16	<100						

MW-7	3/14/2000	4.59	4,400	31,000	2,500	13,000	1,100	<500	<0.02		69	<.1	<.1	13.3	194	1.3
MW-7	7/10/2003	4.82	3,050	10,900	950	5,200	<2,500	<500						18.3		4.53
MW-7	8/10/2005	2.87	3,180	15,800	1,750	8,160	606	118	0.287		<5	<.1	<.1	15		3.24
MW-7	11/30/2005	4.3	1,630	6,200	738	4,260	674	96	0.901		4	<.1	12			
MW-7	6/14/2006	5.1	5,200	22,000	3,100	15,800	1,400	370	0.64	<500						
MW-8	3/14/2000	7.17	<5	<5	<5	<10	<5	<5	<0.02		630					
MW-8	7/10/2003				well not found											
MW-8	8/10/2005	2.48	<1	2	<1	<3	<5	<1	<0.02		<5	1.68	2.38	<.1		3.86
MW-8	11/30/2005	6.98	<1	<1	<1	<3	<5	<1	<0.02		<3	2.1	16	<.2		6.13
MW-8	6/14/2006	6.07	<5	<5	<5	<15	<5	<5	<0.02	<5						
MW-9	3/14/2000	7.22	16,000	39,000	4,800	25,000	610	5,100	<0.02		130					
MW-9	7/10/2003	6.15	15,900	23,600	2,050	12,600	<2,500	8,000				<.1	<.1	1.3	<26	1
MW-9	8/10/2005	4.57	16,500	23,300	1,940	12,500	970	5,810	12.465		133	<.1	<.1	2.16		3.98
MW-9	11/30/2005	6.86	11,900	18,600	1,760	14,400	1,040	4,600	16		116	<.1	10	1.2		3.14
MW-9	6/14/2006	8.3	21,000	29,000	2,200	14,500	1,700	8,700	53	120						
MW-10	3/14/2000	4.3	<5	<5	<5	<10	<5	<5	<0.02		180					
MW-10	7/10/2003	1.2	2	7	1	5	<5	<1				0.27	<.1	1.87	<26	1.2
MW-10	8/10/2005			well not found, under water												
MW-10	11/30/2005	3.58	<1	<1	<1	<3	<5	<1	<0.02		<3	<.1	12	<.2		3.04
MW-10	6/14/2006	4.24	<5	<5	<5	<15	<5	<5	<0.02	<5						
MW-11	3/14/2000	4.29	3,200	15,000	2,000	9,200	530	<200	<0.02		81					
MW-11	7/10/2003	3.89	2,370	11,000	1,090	5,490	<500	<100				<.1	<.1	10.1	<26	0.9
MW-11	8/10/2005	2.8	3,100	17,000	1,530	8,290	444	<1	0.629		20	<.1	<.1	11.1		3.84
MW-11	11/30/2005	4.07	1,910	10,300	819	7,060	398	<1	2.49		17	<.1	11	11		2.87
MW-11	6/14/2006	4.89	920	6,800	500	2,980	190	<5	0.051	<5						
MW-12	3/14/2000	4.19	<5	<5	<5	<10	<5	<5	<0.02		160					
MW-12	7/10/2003	3.32	<1	<1	<1	<1	<1	<1								1.2
MW-12	8/11/2005	2.09	<1	<1	<1	<3	<5	<1	<0.02		<5	0.13	3.68	0.205		5.01
MW-12	11/30/2005	4.02	<1	<1	<1	<3	<5	<1	<0.02		<3	0.4	13	<.2		5.41
MW-12	6/14/2006	5.27	<5	<5	<5	<15	<5	<5	<0.02	<5						
MW-13	3/14/2000	2.95	<5	<5	<5	<10	<5	<5	<0.02		30					
MW-13	7/10/2003				well not found											
MW-13	8/10/2005				well under water											
MW-13	11/30/2005	6.52	<1	<1	<1	<3	<5	<1	<0.02		<3	0.62	12	<.2		3.82
MW-13	6/14/2006	6.54	<5	<5	<5	<15	<5	<5	<0.02	<5						

C&L CONSULTANTS, Inc.

*P.O. Box 50307, Columbia, SC 29250
(803) 438-0934 Voice or FAX*

Report of SIEVE/HYDROMETER ANALYSIS

Report Date: 3/27/00

Analysis Date: 3/20/00

Client: CBM Environmental
 377 Carowinds Blvd, Suite 118
 Fort Mill, SC 29708

C&L Job #: 9103

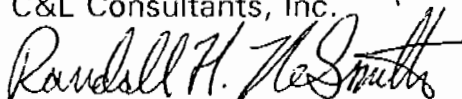
Project: Snider's Stop & Shop, CBM# 10691
Sample ID: MW-7 (0'-2')

Method of Analysis: ASTM D422-63(1990)

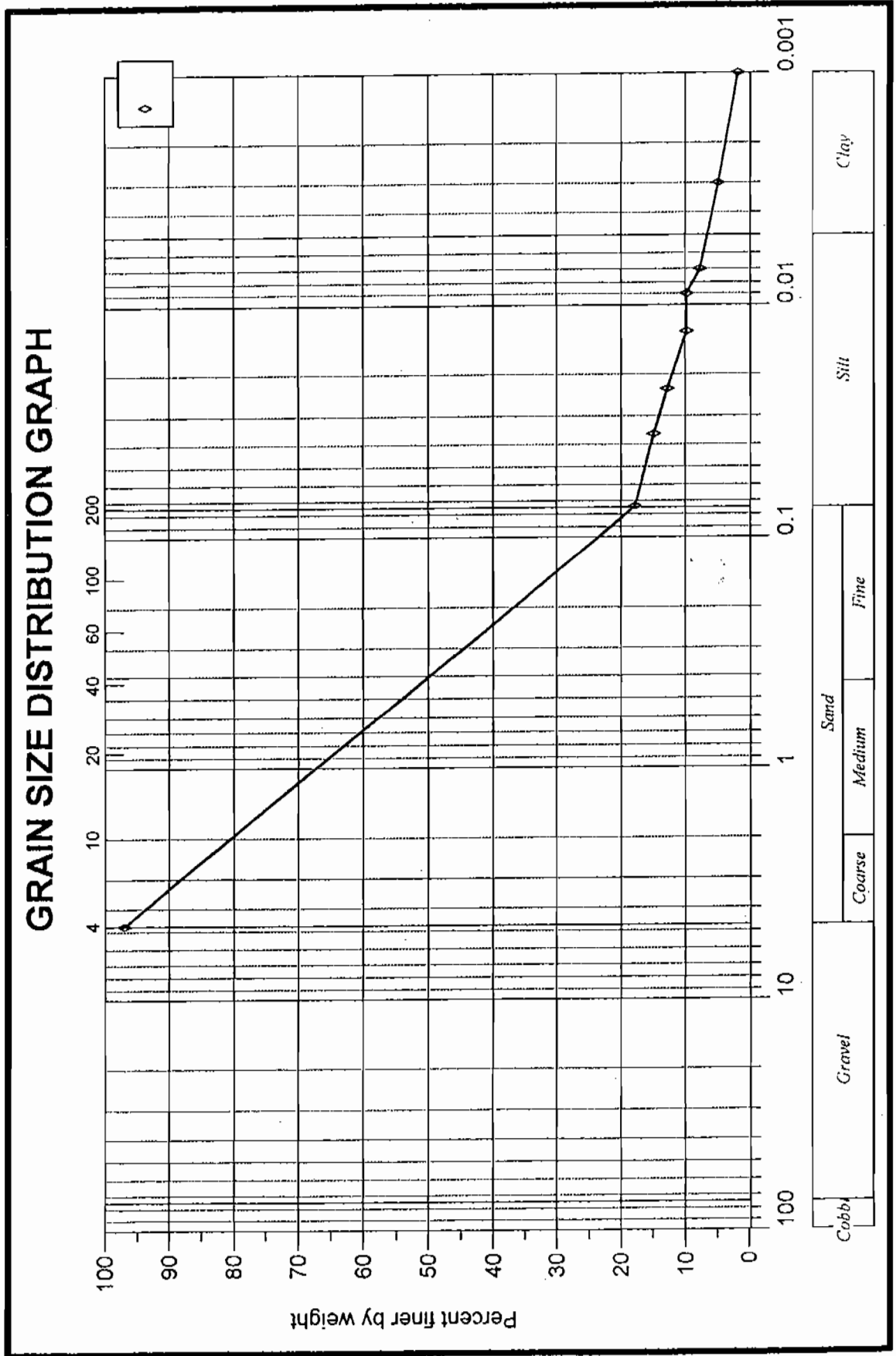
Analyst: R.H. NeSmith

-
- | | | |
|----|---|-------------|
| 1. | Gravel, passing 3-in. and retained on No.4 sieve: | <u>3</u> % |
| 2. | Sand, passing No. 4 sieve and retained on No. 200 sieve | <u>79</u> % |
| | (a) Coarse Sand, passing No. 4, retained on No. 10 | <u>--</u> % |
| | (b) Medium Sand, passing No.10, retained on No.40 | <u>--</u> % |
| | (c) Fine Sand, passing No.40, retained on No. 200 | <u>--</u> % |
| 3. | Silt, 0.074 to 0.005 mm | <u>11</u> % |
| 4. | Clay, smaller than 0.005 mm | <u>7</u> % |
| 5. | % Moisture | <u>14</u> |

Respectfully Submitted,
C&L Consultants, Inc.



Randall H. NeSmith, Laboratory Director



SUMMARY of SLUG TEST

SOUTH CAROLINA
Department of Health and Environmental Control (DHEC)

Site Data

SITE ID: # 11814 COUNTY COLLETON

FACILITY NAME SNIDER'S STOP & SHOP

Slug Data

See Appendix F Table 3 Figure for a list of all data measurements.
(water level logs, etc.) (Complete as appropriate).

Water Level Recovery Data was measured by HERMIT DATA LOGGER.
(Hermit Data Logger, Manually with Water Level Indicator, etc.) (List Method).

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in well(s) number

Initial Rise/Drawdown in well (feet)

Radius of Well Casing (feet)

Effective Radius of Well (feet)

Static Saturated Aquifer Thickness (feet)

Length of Well Screen (feet)

Static Height of Water Column in Well (ft)

MW-2	MW-7	MW-12	
0.707	0.205	0.664	
0.083	0.083	0.083	
0.354	0.354	0.354	
7.14	5.38	5.8	
8	8	8	
2.86	4.62	4.2	

Calculations

See Appendix F Table 3 Figure for calculations. (Complete as appropriate).

The method for aquifer calculations was BOUWER-RICE (i.e. Bouwer-Rice, Cooper, etc).

Calculated values by well were as follows:

Slug Test Conducted in well(s) number

Hydraulic Conductivity

MW-2	MW-7	MW-12
0.28 ft/day	0.08 ft/day	0.21 ft/day

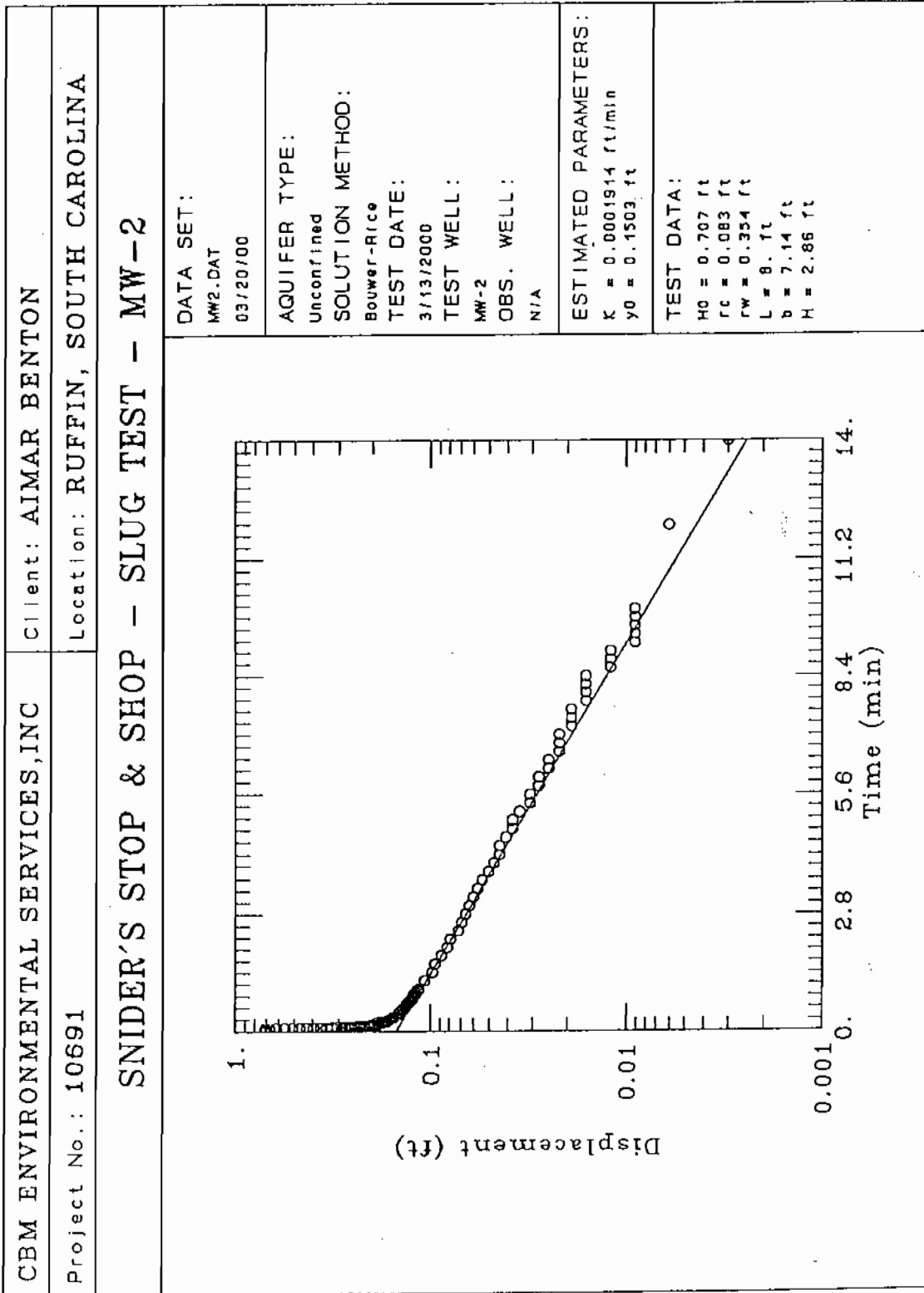
Thickness of the aquifer used to calculate hydraulic conductivity was 7.14 feet.

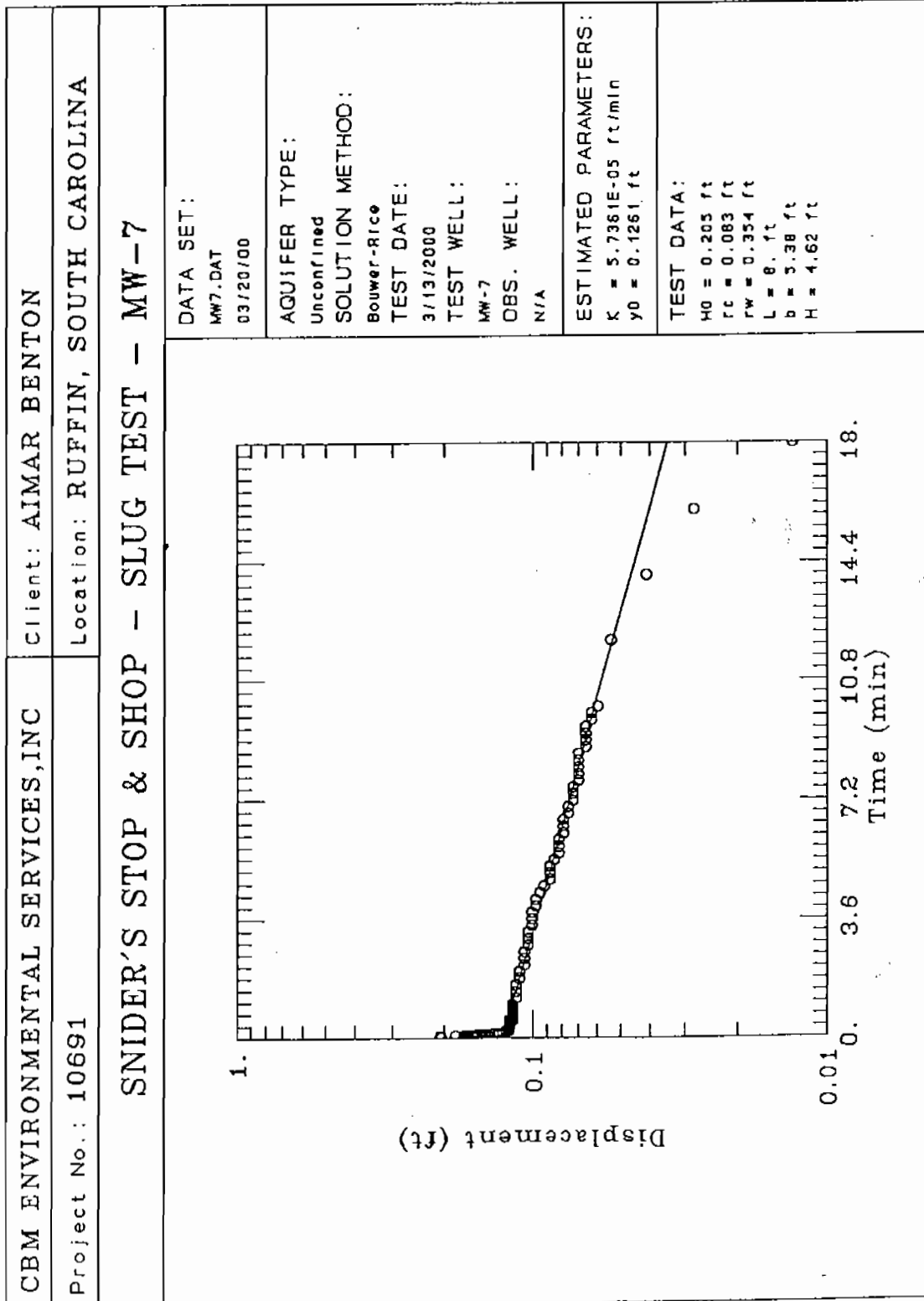
The aquifer is confined semi-confined X water table (Check as appropriate).

The estimated seepage velocity is 2.34 to 8.18 feet per year based on

a hydraulic conductivity of 0.08 to 0.28 ft/day, a hydraulic gradient of 0.02 ft/ft, and
a porosity of 25 per cent for SANDY soil (list type i.e., silty sand, clay, etc).

SUMMARY of SLUG TEST





CBM ENVIRONMENTAL SERVICES, INC	Client: AIMAR BENTON
Project No.: 10691	Location: RUFFIN, SOUTH CAROLINA

SNIDER'S STOP & SHOP - SLUG TEST - MW-12

